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Financial Qualifications for
Merchant Plant Combined License Applicants

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

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PUBLIC MEETING ON
FINANCIAL QUALIFICATIONS FOR
MERCHANT PLANT COMBINED LICENSE APPLICANTS

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TUESDAY

JANUARY 8, 2013

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The public meeting convened in Room T-6A1,
Two White Flint North, 11545 Rockville Pike,
Rockville, Maryland, Room T-6A1, Russell Chazell
moderator, presiding.

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1 NRC STAFF PRESENT
2 RUSSELL CHAZELL, Moderator
3 PAT CASTLEMAN
4 AMY CUBBAGE
5 JONATHAN DEGANGE
6 MICHAEL DUSANIWSKYJ
7 RONALDO JENKINS
8 JOHN JOLICOEUR
9 JOCELYN LIAN
10 EARL LIBBY
11 MIKE MAYFIELD
12 HO NIEH
13 ANNELIESE SIMMONS
14 MICHAEL SPENCER
15 TOM TAI
16 RICHARD TURTIL
17 SUSAN UTTAL
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1 ALSO PRESENT

2 GARY BECKER, NuScale Power*

3 MIKE CAVERLY, PPL

4 ANNE COTTINGHAM, NEI

5 MARK FINLEY, UniStar

6 STEVEN FRANTZ, Morgan and Lewis

7 BILL FREEBAIRN, Platts

8 GREG GIBSON, UniStar

9 HELEN GINSBERG, NEI

10 KENNETH HANSEN, Chadbourne & Parke

11 SCOTT HEAD, NINA

12 DEBBIE HENDELL, UniStar

13 JOHN MATTHEWS, Morgan and Lewis

14 TIM MATTHEWS, Morgan and Lewis

15 MARK MCBURNETT, NINA

16 DAVID REPKA, Winston & Strawn

17 AMY ROMA, Hogan Lovells

18 JIM SALDARINI, Bechtel and Generation

19 mPower*

20 TERRY SENSUE, Holtec International*

21 JEFF SIMMONS, Luminant

22

23 * via teleconference

24

25

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P-R-O-C-E-E-D-I-N-G-S

8:01 a.m.

MR. CHAZELL: Okay. Why don't we go ahead and get started? Good morning and welcome to the Nuclear Regulatory Commission.

This public meeting is a discussion of financial qualifications for merchant plant combined license applicants.

The meeting is scheduled to end at noon today. I am Russ Chazell, a project manager in the policy branch of the Division of Advanced Reactors and Rule Making in the Office of New Reactors.

I have a few announcements before we begin. One, this is a Category II public meeting. The public is invited to participate in this meeting by providing comments and asking questions near the end of the meeting.

Two, please sign the attendance roster near the door either now or after the meeting. This roster will be part of the official agency record.

Postage paid feedback forms are next to the attendance roster. Please complete them during the meeting or take them with you to mail back later. We value your opinion and will use your input for improvements.

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1 Meeting handouts are over here by the
2 door. There will be a meeting summary for this
3 meeting and all handouts will be available in ADAMS.

4 This meeting is also attended by toll-free
5 audio teleconference. If there are attendees on the
6 line please identify yourselves now for the record.

7 Do we have anyone on the line?

8 MR. SALDARINI: Yes. This is Jim
9 Saldarini from Bechtel Power. Today I'm representing
10 both Bechtel and Generation mPower.

11 MR. CHAZELL: Thank you.

12 MR. BECKER: This is Gary Becker with
13 NuScale Power.

14 MR. CHAZELL: Thank you.

15 MR. SENSUE: Yes. My name is Terry
16 Sensue. I'm the licensing manager here at Holtec
17 International.

18 MR. CHAZELL: Thanks, Terry. Anyone else?
19 Okay. We'll go on then.

20 If you hear fire alarms please exit the
21 building through the lobby. We'll escort you down, in
22 that case.

23 Restrooms are located outside this
24 conference room and right around the corner. Now,
25 let's get started by laying out the plan for today's

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1 meeting.

2 The purpose for today's meeting is to seek
3 stakeholder input regarding the financial
4 qualification requirements of 10 CFR 50.33(f) as
5 applied to merchant plant combined license applicants.

6 The NRC is considering a full range of
7 alternatives regarding financial qualifications for
8 merchant plant COL applicants.

9 This meeting will focus on these industry
10 - on the industry-proposed alternative of using
11 license conditions to meet financial qualification
12 requirements. License conditions have been proposed
13 by the Nuclear Energy Institute and other interested
14 stakeholders.

15 We'll start with NEI and other industry
16 stakeholders providing us with their perspective and
17 recommendations.

18 Then we'll have a short break and after
19 the break we'll start our round table discussion of
20 the issue.

21 When speaking please identify yourself and
22 your affiliation and speak loudly enough for all to
23 hear. We have some microphones available on the table
24 here.

25 Lastly, we have a transcriptionist present

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1 so that a record of our discussion will be available
2 for future reference.

3 After the break a round table discussion
4 between industry stakeholders and the NRC staff will
5 then receive public's comments.

6 And at this time I'd like to turn the
7 floor over to Mr. Ho Nieh, division director in the
8 Office of Nuclear Reactor Regulation.

9 MR. NIEH: Okay. Thank you, Russ. Good
10 morning. As Russ mentioned, I'm Ho Nieh.

11 I'm the director of Division of Inspection
12 and Regional Support in the Office of Nuclear Reactor
13 Regulation.

14 I'm joined by my colleagues here in the
15 Office of New Reactors as well as other NRR colleagues
16 and we have representatives from our Office of General
17 Counsel and we'll cover our introductions just after
18 a few brief remarks here.

19 As Russ mentioned, the purpose of today's
20 meeting is to have some dialogue with the industry, in
21 particular regarding the proposal in your November 13,
22 2012, letter regarding a license condition proposal
23 for merchant plant financial qualifications for
24 combined license applications.

25 As Russ mentioned, we are evaluating this

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1 proposal in the letter as well as other options to
2 address the issue regarding financial qualifications
3 for merchant plants. So we're very interested in
4 further understanding the proposal.

5 The NRC staff has not yet made any
6 decisions on the matter but we are considering it and
7 we do expect to provide our views to the Commission on
8 this particular matter.

9 So with that, I'd like to start with the
10 introductions of the NRC representatives at the
11 meeting. Again, I'm Ho Nieh from the Office of
12 Nuclear Reactor Regulation.

13 MR. CHAZELL: Russ Chazell, NRO.

14 MR. DEGANGE: Jonathan DeGange, NRO.

15 MR. SPENCER: Michael Spencer, OGC.

16 MR. LIBBY: Earl Libby, NRO.

17 MR. CAVERLY: Mike Caverly with PPL.

18 MR. GIBSON: Greg Gibson, UniStar.

19 MR. REPKA: David Repka with Winston &
20 Strawn.

21 MS. GINSBERG: Ellen Ginsberg, NEI.

22 MR. J. MATTHEWS: John Matthews from
23 Morgan Lewis here as counsel to Nuclear Innovation
24 North America.

25 MR. HANSEN: Ken Hansen from Chadbourne &

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1 Parke.

2 MS. SIMMONS: Anneliese Simmons from NRO.

3 MS. CUBBAGE: Amy Cubbage, NRO.

4 MR. DUSANIWSKYJ: Michael Dusaniwskyj,
5 NRR.

6 MR. TURTIL: Richard Turtill, NRR.

7 MR. JOLICOEUR: John Jolicoeur, NRR.

8 MR. WINTER: Rick Winter, NRO.

9 MS. HENDELL: Debbie Hendell, UniStar.

10 MR. FINLEY: Mark Finley, UniStar.

11 MR. T. MATTHEWS: Tim Matthews, Morgan
12 Lewis.

13 MR. FRANTZ: Steve Frantz, Morgan Lewis.

14 MR. SIMMONS: Jeff Simmons, Luminant.

15 MR. MCBURNETT: Mark McBurnett, Nuclear
16 Innovation North America.

17 MS. COTTINGHAM: Anne Cottingham, NEI.

18 MR. HEAD: Scott Head, Nuclear Innovation
19 North America.

20 MR. MAYFIELD: I'm Mike Mayfield, NRO.
21 Sorry. Late as usual.

22 MR. NIEH: Well, that would conclude any
23 opening remarks that the NRC staff has. With that,
24 I'd like to turn it over to Ellen for industry's
25 presentations. Thank you.

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1 MS. GINSBERG: Thanks very much. In the
2 interest of redundancy here, I am Ellen Ginsberg.

3 I'm vice president, general counsel and
4 secretary for the Nuclear Energy Institute and I would
5 like to start by expressing our sincere appreciation
6 to Mike and to Ho and Russ and others, members of the
7 NRC staff, for providing the industry with this
8 opportunity to offer further perspectives on the
9 issues associated with financial qualifications of
10 non-electric utility COL applicants.

11 Additionally, I'd like to commend
12 Anneliese and the NRC staff for providing us with
13 specific questions which will enable us to focus our
14 presentations this morning on those specific issues of
15 greatest interest to the NRC staff.

16 We intend to fully address those issues as
17 we go through our material. Being the representatives
18 of the nuclear industry and believing in defense in
19 depth we provide - we are providing written material
20 in addition to our oral commentary so that you will
21 have a written expression of our views on the
22 questions that you've identified.

23 In addition, there are other pieces of
24 written material so that there will be several ways
25 that you can remind yourself of our views.

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1 To explain how satisfaction of the
2 financial qualification license condition would meet
3 the regulatory requirements, we've specifically
4 developed for your consideration a document that I'll
5 call a matrix and it should be over on the table.

6 It looks like this. It's a table of sorts
7 and we thought it would be useful because it
8 specifically matches the requirements of 5033 and
9 Appendix C with our view of how they would be met by
10 a license condition.

11 As I mentioned, this document should help
12 illuminate why we believe that this is an appropriate
13 means of addressing the issue at hand.

14 So moving to our presentation, it will
15 consist of four segments this morning. In addition to
16 what I will provide as a short introduction and
17 overview - there we go - Mr. Hansen will provide a
18 brief, what I'll describe as a tutorial on project
19 finance and how it will assure the availability of
20 adequate funding for construction and operation.

21 Although I've had to significantly
22 truncate Mr. Hansen's CV, I think it's sufficient to
23 say that he's a nationally renowned expert in
24 structuring, negotiating and implementing domestic and
25 international project financing with a particular

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1 focus on energy projects.

2 So we're very fortunate to have him here
3 and just to give you a little more detail, in addition
4 to his practice with the law firm of Chadbourne &
5 Parke, which is also a nationally known law firm, he's
6 been an adjunct professor at Georgetown Law School
7 where he's taught project finance for over two
8 decades.

9 In addition, perhaps his highest accolade
10 is that he at some point taught at the Fletcher School
11 of Law and Diplomacy, which I'm a graduate of Tufts so
12 I find that particularly impressive.

13 In addition to Mr. Hansen, you can see
14 that I have two other members of the nuclear bar with
15 me with whom you are undoubtedly familiar - Mr.
16 Matthews of Morgan Lewis and Mr. Repka of Winston &
17 Strawn - and I've asked them to address many of the
18 other areas of concern that were identified by the
19 staff, specifically John will highlight the legal
20 bases which we believe will support the option of a
21 financial qualifications condition in these
22 circumstances.

23 And Dave Repka will explain how the
24 industry proposes to in effect close out the license
25 condition. Next slide.

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1 So perhaps the best way to begin the
2 substantive discussion here is to clearly articulate
3 what we see as the problem - to identify the problem
4 statement.

5 And our view is that NRC regulations
6 require an applicant to demonstrate that it possesses
7 or has reasonable assurance of obtaining the funds
8 necessary to cover construction costs and the related
9 fuel costs.

10 But in the context of a non-electric
11 utility applicant - we're talking effectively about a
12 merchant applicant - that funding is not likely to be
13 committed unless the COL has been issued.

14 So this literally creates an issue of
15 timing. A demonstration can be made at the time of
16 licensing and the funds will be available before
17 construction.

18 Simply put, the applicant needs the COL to
19 obtain the funding and reasonable assurance of funding
20 is necessary to obtain a COL. What a system.

21 While this issue may only affect right now
22 the applicants here represented, it will in effect be
23 a problem for all non-electric utility applicants who
24 can only obtain committed financing once the COL is in
25 hand.

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1 As such, we believe it's a generic issue
2 and if not properly resolved could literally and
3 unnecessarily impede the licensing of any new merchant
4 generator.

5 So as you are well aware, we, the
6 industry, have proposed the use of license condition
7 to address this licensing issue.

8 We've discussed this with you - we've
9 discussed this with you in October as part of the
10 stakeholder meeting and we've subsequently, and it's
11 been alluded to already, submitted a letter reflecting
12 our views to Chairman Macfarlane.

13 As Dave Repka will discuss, the proposed
14 license condition we believe would fully meet the
15 regulatory requirements.

16 It will - it could be and would be
17 objective and verifiable and construction - perhaps
18 most importantly, construction could not begin until
19 the license condition is satisfied.

20 That is, if the condition isn't met, as
21 we've said before, construction could not occur and
22 the public health and safety would be protected
23 because the plants at issue simply would not be built.
24 Next slide.

25 So moving to the project finance issue,

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1 there's been a lot of discussion about project
2 finance.

3 We think it's important and Mr. Hansen
4 will explain the project finance model which is likely
5 to be used by the non-electric utility applicants.

6 We think this is a viable means. This has
7 been demonstrated to be a viable means of financing
8 these and other large infrastructure projects.

9 And in its - and its closing, and here's
10 the punch line, commits the funds necessary to cover
11 the estimated construction and related fuel cycle
12 costs.

13 Nothing being suggested by the industry -
14 let me emphasize that - nothing being suggested by the
15 industry in its license condition proposal is intended
16 to or would reduce the requirements for financial
17 qualification.

18 The very nature of a project finance
19 assures that there's sufficient funding for
20 construction and that the funding is committed from
21 sources that meet high credit standards. Next slide.

22 So as will be discussed by my colleagues,
23 the Commission has used a license condition in several
24 - I could say many other contexts.

25 There's no basis, in our view, on which to

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1 conclude that a financial qualification license
2 condition is any different than any other design or
3 construction feature that will be confirmed as part of
4 the NRC's inspection and oversight process.

5 Further, the Atomic Energy Act provides
6 the NRC with a fair measure of discretion to determine
7 what constitutes reasonable assurance that an
8 applicant is financially qualified.

9 The wisdom, in my view and I think
10 generally, of the statute's drafters is evident
11 because the statute provides the NRC with the ability
12 to accommodate changing economic and financial
13 conditions while still making the necessary financial
14 reasonable assurance with respect to financial
15 qualifications.

16 In addition to being legally permissible,
17 in our view sound public policy argues in favor of
18 permitting licensing to go forward so long as the
19 requirements of an appropriately robust financial
20 qualification condition are met prior to beginning
21 construction.

22 So with that, I would now like to turn to
23 Mr. Hansen's presentation on project finance. Thank
24 you.

25 MR. HANSEN: Thank you, Ellen. This is

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1 Ken Hansen from Chadbourne & Parke. Go to the second
2 slide.

3 The - I guess this is the question in
4 front of us and whether the project financing of a
5 nuclear power project could provide a "reasonable
6 assurance" of adequate funding to construct and
7 operate a plant. My slide asserts yes.

8 I, frankly, don't mean that as a legal
9 conclusion. That's your job.

10 I mean it, I suppose, as a little bit of
11 an empirical inference from 20 some years of global
12 development in which the public - the private
13 development of public infrastructure has become an
14 increasingly acceptable thing from roads and ports and
15 airports and especially, perhaps, in the power sector
16 - power generation, transmission, distribution, you
17 name it, in if not everywhere on the planet an awful
18 lot of places.

19 And the dominant model for making that
20 stuff happen has been limited recourse project
21 financing in which the expertise and financial
22 capacity of private sponsors is coupled with the
23 financial resources of lenders to build large things,
24 especially large things that might not have been so
25 feasible on the balance sheet of a particular player

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1 or, frankly, on the balance sheet of a government that
2 wanted new infrastructure but couldn't see its way to
3 raise taxes to cover it.

4 This is a model that has provided
5 breakthroughs in the availability of infrastructure in
6 a lot of places and those countries, those developers,
7 would all think that the answer to that question is,
8 of course. So I'll talk a little bit about how they
9 get there, if that's okay. Next slide. Thank you.

10 I think you've probably all heard
11 variations of this before but let me just assert it.
12 The project financing entails lending against the
13 assets of a project and the cash flow expected from
14 the project's operations without - with limited
15 reliance on credit support that's external to the
16 project. So you're looking at the project as the
17 source of your repayment.

18 The assets to which you're looking include
19 not just the physical assets but also the project
20 contracts that provide the basis for construction and
21 operation of the project.

22 Those contracts have to be in force and
23 inform in substance satisfactory to the lenders before
24 financial close, before the lenders put their money on
25 the table and before the equity.

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1 Equity may have put money on the table but
2 before they're obligated as to the other people on the
3 project to do so.

4 Moving on, as to the two elements of your
5 test, I think it's fair to say that project financing
6 does assure the availability of adequate funding for
7 construction.

8 Nobody would go forward if they didn't
9 think that that was true. The way they do it is with
10 committed equity.

11 That equity can be taken seriously because
12 either it has been prefunded, either already spent or
13 put in cash in escrow or supported by a letter of
14 credit.

15 It's a promise pursuant to an equity
16 contribution agreement from the equity - from an
17 investment grade company or, as I mentioned, it's
18 assured by an investment grade guarantee of some other
19 party or supported by a letter of credit from a bank
20 of agreed adequate credit quality. So the equity
21 commitments can be taken seriously.

22 And likewise, the debt is from lenders who
23 have committed contractually to the project initially
24 under commitment letters, then in due course under a
25 credit agreement to make the disbursements that with

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1 the equity will add up to the total construction costs
2 of the project.

3 Frankly, it adds up with the construction
4 costs of the project and then some because there will
5 be contingencies for any, you know, unexpected costs,
6 just to provide a margin of certainty.

7 Moving on, for the second prong of the
8 test on operations, I think the comfort of the
9 participants in the project financing that really go
10 back to the due diligence process when the lenders
11 studied everything that was being assembled by the
12 developers. The project contracts - they look at the
13 regulatory environment.

14 They look at the track record of parties
15 being brought to the table to do what they're - what
16 they're planning on doing.

17 Their due diligence is a foundation of
18 their comfort. Secondly, more technically but
19 critically, the financial model.

20 The lenders will probably start with
21 something proposed by the equity but nonetheless
22 they'll test it. They'll tweak it.

23 They may in fact come up with their own
24 independent financial model that projects the revenues
25 or initially it projects the sources of investment

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1 against the construction costs and then during the
2 operating period projects revenues against expected
3 operating costs so that you can - well, confirm that
4 you've got adequate funding through both construction
5 and operations.

6 You can confirm that you have adequate
7 revenues to pay operating costs and repay debt,
8 provide a reasonable return to equity, and that
9 financial model is sort of the Holy Grail of the
10 transaction because it's describing the future on
11 which everyone is counting.

12 It's taken very seriously and it's updated
13 from time to time during the life of the project.

14 Lastly - perhaps a bit of a technical
15 detail but it really seems to speak to the issues here
16 - it will be agreed that all the investment goes into
17 a pot and once you're operating all the revenues will
18 go into a pot called the revenue account, and the
19 revenue account will be allocated by a bank that's
20 appointed for this purpose to cover the various
21 obligations of the project.

22 And they call it a waterfall because
23 there's a priority attached to the allocation of those
24 revenues. And without exception, if you're in the
25 project finance world the first allocation of revenues

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1 - and the lenders would insist on this - is not to pay
2 them but, rather, to pay operating costs.

3 The operating costs will be pursuant to an
4 agreed budget. You can't just come up and say oh,
5 I've got some more operating costs - I think I'll put
6 those ahead of the debt service.

7 But to the extent you are following the
8 agreed contracts and the agreed budget, the first
9 priority for use of revenues throughout the operating
10 period is to cover operating and maintenance costs.

11 The next step in the waterfall is likely
12 to be debt service payments. Now, to be fair, these
13 waterfalls usually have something like eight, ten, 12,
14 15 buckets so this is a summary.

15 But you can be confident that at the top
16 is operating and maintenance. Then probably is debt
17 service and then a series of other things.

18 And at the very end of the waterfall there
19 will be a basket that captures all the money that's
20 left over, and if certain tests are met then that
21 money will be released to the equity as the rate of -
22 to constitute the return on their investment.

23 But the arrangement is structured so as to
24 assure that if anybody gets paid operating costs get
25 paid.

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1 Moving on, I hesitate. This is pulled
2 straight out of the project finance class but it may
3 be useful to get some sense of what the network of
4 contracts looks like, and just a couple points to be
5 made.

6 In the middle we've got this project
7 company, SPV - a special purpose vehicle, meaning an
8 entity that's created.

9 It's the opposite of traditional lending
10 where a bank is lending against the track record of a
11 - of someone, their long history, their established
12 record of repaying debt, perhaps in fact their wealth,
13 their lack of need for the loan.

14 Rather, our project company was just
15 invented, has no history. It's never paid or repaid
16 anybody for anything. In fact, it doesn't really have
17 much.

18 It will have officers but it may not have
19 any employees whatsoever. The way it does what it
20 needs to do is through contracts.

21 For instance, it doesn't know how to build
22 a power project. So it enters into an EPC -
23 engineering procurement construction contract with
24 someone who does know how to build contracts.

25 In the happiest world they'll - that

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1 contract will provide that the project will be built
2 for a fixed price. So challenges of getting that
3 done at that price are a risk taken by the EPC
4 contractor.

5 Once it's built, turned over to the
6 project company, it has to be operated. Again, the
7 project company doesn't know how to do that so it does
8 it through the O&M contractor under an O&M contract.

9 To operate, it, depending on the nature of
10 the technology, it may need a fuel supply - gas, coal,
11 oil, whatever. So there will be a fuel supply
12 agreement pursuant to which fuel comes to the plant.

13 And for the electrons that are generated
14 they need to be sold. They need to go out through a
15 wire. Typically, though, there are proliferating
16 numbers of models for power systems in countries but
17 certainly in the traditional model it goes out through
18 a single wire to a single utility who enters into -
19 promises to pay for that power pursuant to a power
20 purchase agreement.

21 The last thing I'd point out is that I
22 mentioned that revenue account and that all the funds
23 coming to the project whether for construction or for
24 operations would be put into a pot controlled by a
25 bank. That's the collateral account bank and - well,

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1 let's move on to the next slide.

2 The last slide showed a bunch of little
3 dotted lines which are the cash flow and this slide
4 just makes the side additional point that the last
5 slide is correct as a contractual matter but not as a
6 practical matter because actually none of those
7 parties - well, few of those parties - exchange very
8 much money.

9 Really, the money paid by the utility, for
10 instance, doesn't go to the project company. It goes
11 to the collateral account bank and the collateral
12 account bank then allocates it, first to operating
13 costs or to fuel costs, loan payments to the banks,
14 ultimately perhaps, dividends back to the sponsors.

15 But the money is carefully cared for by
16 this third party institution but does it according to
17 the agreed contract.

18 Moving on, a little more, I guess,
19 background on project financing and I guess how it
20 leads to the conclusion that there would be enough
21 funds to do what you're trying to do.

22 Folks speak generally about three phases
23 of the process. Development phase - that's everything
24 that precedes construction.

25 In that phase, the developers of the

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1 project, whoever has the gleam in their eye to make
2 this happen, puts together enough fundamentals - in
3 other words, sort of laboring over what really needs
4 to go into that because the answer is it depends.

5 As much needs to go into that initial
6 stage as is necessary to get the lenders interested,
7 and so if you're in a situation where the deal just
8 can't be done - the hard thing in the project is to
9 find a purchaser for the power - well, then an element
10 of your development phase will be to conclude a power
11 purchase agreement.

12 If that's available to you as a matter of
13 legal right and there are other things - who knows,
14 maybe getting the environmental clearance for the site
15 where you're working on - well, then that'll become
16 the thing you work on first.

17 Fundamentally, what you need is the right
18 to do the project and the practical ability to make a
19 case to other investors, both equity and debt, that
20 you can make this happen.

21 And, ultimately, the only thing I put down
22 that seemed to be absolutely on everybody's list of
23 what you're going to need are appropriate license to
24 build, own and operate the project.

25 If you don't have that you're really not

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1 worth talking to and that perhaps bears on the - what
2 you all are considering as relevant.

3 And once you've got, you know, those
4 fundamentals together or enough fundamentals together,
5 then you start talking to other investors both debt
6 and equity.

7 Assuming those conversations go well, you
8 move into construction phase, construction phase being
9 kicked off with financial close at which debt and
10 equity are available to start pouring into the
11 construction account at the account bank and you're
12 off to the races to build the thing.

13 That ends with the achievement of project
14 completion. That sounds almost chronological by
15 definition. The project completion is a bit of a term
16 of art in project finance world.

17 It means something - a number of things
18 above and beyond the completion of construction, about
19 which more in a moment. And then you move into
20 operating - that operating phase which sometimes, to
21 the annoyance of the developers in the equity side,
22 will be slavishly in accordance with the agreed
23 project documents because that's, after all, what was
24 promised to the lenders.

25 And if you're not going to do it or you're

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1 not going to do it the way you promised, you have to
2 go back and talk to them. And it happens - waivers
3 and amendments are a part of life.

4 But the expectation is that absent
5 waivers, absent amendments, you will run the project
6 the way you promised two years ago, 20 years ago.
7 These are often 25-, 30-year financings.

8 So these documents become a constitution
9 for how life will be conducted in that project over
10 the long term.

11 Okay, next. I think I've already said it.
12 The terms of the fundamentals - probably two critical
13 stages - what I mentioned, gathering licenses and
14 whatever else is necessary to interest third party
15 investors and part of that process will be assembling
16 your team.

17 Technical advisers, engineers, legal
18 counsel, financial advisor and the lead arranger who
19 will be basically a bank that specializes in raising
20 debt, being paid a lot of money to know how to do
21 that. Next slide.

22 In the financial structuring, the
23 financial advisor probably is going to take the lead -
24 or the equity, frankly, may have already taken a head
25 start - in putting together a financial model showing

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1 sources and uses of funds both during the construction
2 period and the operating period, the tension during
3 the construction period being construction costs
4 versus your sources of investment.

5 You won't have any revenues. Maybe very
6 late in the construction period you might have some
7 early revenues. But basically you're looking for
8 investment to cover your costs.

9 Then the operating period it is your hope
10 and intention that project revenues will cover
11 operating costs or you shouldn't have gone down this
12 road. Next slide.

13 I mentioned before one of the basis in
14 which lenders get comfortable is that they have done
15 their due diligence. They have - they have reviewed
16 this stuff thoroughly - the project contracts,
17 licenses, the regulatory regime.

18 Whatever seems to be relevant to the
19 potential success of this project will have been
20 studied and the results of that study are either they
21 walk away, which is a possibility if it turns out not
22 to be financeable - they're just not - they just can't
23 get there.

24 But assuming they do get there then they
25 will have identified any number of issues to which

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1 they want risk mitigants and those risk mitigants will
2 be reflected in the financing documents, in
3 representations, covenants, conditions preceding to
4 the financial closing. Next.

5 Negotiation of financing documents -
6 probably pretty obvious. Just as to the project
7 finance lawyer in the room, it's dear to my heart.

8 We spend a lot of time trying to pull
9 together the issues and the individuals involved in
10 these documents which need to work for a long period
11 of time.

12 Those documents include a wide array of
13 terms already mentioned, I guess. The pinning down the
14 sources of investment, there will be conditions that
15 have to be satisfied before closing including permits,
16 relevant permits and licenses.

17 One of the most sensitive areas in the
18 project finance world are sponsor support and I can
19 ask some of my colleagues whether it was okay if I
20 mentioned that because a lot of folks in project
21 finance it's sometimes described as non-recourse
22 project finance and it violates the spirit of it that
23 there should be recourse to anything outside the
24 project.

25 But the fact is during the negotiating

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1 process, during the due diligence process, you come up
2 with stuff. You say, wait a minute, there's this
3 little way the project could in 12 and a half years
4 fall off the rails.

5 There's a business permit that has to be
6 renewed. What if the town doesn't renew it? There
7 could be an issue, and the ledgers say, you know, that
8 risk could render this whole thing non-financeable.

9 Well, at that point maybe it'll be solved
10 in some other way. Maybe there will be some money put
11 into a reserve account.

12 But it often happens that sponsors say
13 look, this is something we can control. This is a
14 risk we can take. Okay, fine. We will be
15 responsible.

16 That becomes an element of sponsor
17 support. One of the classic elements of sponsor
18 support is just to reasonably to cause the project
19 company to perform its contracts on an ongoing basis.

20 So there may be some sponsor support which
21 gives rise to the term limited recourse project
22 finance as distinct from wholly non-recourse.

23 To the extent that the lenders are most -
24 well, they're concerned about all this stuff but
25 they're especially concerned to not ever have a half-

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1 built project.

2 That won't generate revenue. That won't
3 be a particularly reliable source of repayment. So
4 they want the thing to be completed.

5 So they may have sponsor support that
6 applies during the completion period, and one of the
7 elements of achieving that defined term I mentioned,
8 project completion, is likely to be a consequence of
9 achieving it is whatever sponsor support you had
10 unless you agree to have something that would last
11 longer is released.

12 Moving on, construction phase - it starts
13 - kicked off with financial close upon satisfaction to
14 relevant conditions precedent. Multiple disbursements
15 will carry you through the construction period.

16 The industry term of art is typically
17 commercial operation. That's when the thing - that's
18 when the keys are turned over by the - by the EPC
19 contractor to the project company or to the O&M
20 operator and it's - and it's generating electrons.

21 It's being paid and it's done. You know,
22 the ribbon cutting has happened and everyone's very
23 excited that this plant is now in operation.

24 But in the project finance world there's
25 usually this quiet knowledge amongst the banks that

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1 well, we're not really there yet.

2 We haven't achieved project completion
3 because project completion has a number of elements,
4 the first of which is physical completion. We're
5 there. That's terrific.

6 But we also have other elements and that's
7 how they negotiate it. But there might be an
8 operational completion test meaning not only is the
9 thing complete but it's demonstrated for some period
10 of time that it can operate and generate what it's
11 supposed to generate.

12 It may also be a test of the offtaker. Is
13 the offtaker paying as was expected, as they were
14 expected to do - perhaps more of an issue in
15 international projects than domestic.

16 But some sort of opportunity for the
17 project to prove itself in action may be an element of
18 project completion.

19 Financial completion usually relates to
20 financial tests that have to be met and it has to
21 operate for a period of time for the revenues - for
22 the numbers to build up to know whether or not you're
23 meeting your debt service coverage ratio.

24 Are you generating 100-plus percent of the
25 amount of money needed to pay debt service? You're

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1 likely to have obligations to generate not only enough
2 to pay operating costs and debt service but something
3 above and beyond that - an appropriate cushion.

4 And at the time you're achieving project
5 completion there will also be a legal test which is -
6 tends to be simply everything is as it was supposed to
7 be.

8 You're in compliance with all your
9 licenses. There aren't any events of default under
10 the documents. Liens that were granted to the lenders
11 have to be in full force and effect. Just everything
12 has to be as it's agreed to be.

13 If we built the thing, it's operating
14 properly, generating the expected revenues and we have
15 our legal act together, it's done, then the lenders
16 declare project completion.

17 If there was sponsor support it's released
18 and you're off to the operating period. Next, please.

19 That was it. Good. You are not all
20 caffeinated, perhaps. If there are questions I'd be
21 certainly happy to take them now or for your agenda
22 later.

23 MS. GINSBERG: Why don't we go through -

24 MR. HANSEN: Okay.

25 MS. GINSBERG: - the presentations and

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1 then allow for questions? John, you're up next.

2 MR. J. MATTHEWS: John Matthews from
3 Morgan Lewis and I'm here today as counsel for Nuclear
4 Innovation North America, and I will comment. I was
5 looking at the slide there and you were talking about
6 the project company.

7 Obviously, in the case of a nuclear
8 project where the project company is the licensee it
9 does know lots of things.

10 MR. HANSEN: It will have been around for
11 a while.

12 MR. J. MATTHEWS: And has qualifications
13 and is around for a little while.

14 So but in our model it's kind of
15 interesting because if you look at that figure that
16 Ken had up there NINA is the project company. It's
17 the equity and the owner.

18 It's also the company responsible for the
19 construction phase and then the O&M contractor
20 essentially in our model is STP Nuclear Operating
21 Company who will actually operate the plant once it's
22 constructed.

23 So we - you know, if you think in terms of
24 that model NINA is trying to deploy STP 3 and 4 on
25 exactly that basis.

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1 But, obviously, with the project company
2 that is a fully technically qualified licensee and
3 responsible for quality assurance and everything else
4 that a licensee is responsible for during
5 construction.

6 But we need to get there and in order to
7 get there, first, we need to get a COL, and obviously
8 NINA is in the situation where we don't have the
9 ability right now to bring together the financial
10 wherewithal to close on a project finance and instead
11 we need to first get the COL to then be able to go to
12 market and pull together the necessary resources.

13 NINA proposed, I believe, originally in
14 June of 2011 that the way to solve this problem was to
15 use the license condition and I'd like to talk a
16 little bit about the two elements here, which is, one,
17 the legal basis for using a license condition to
18 satisfy the financial qualifications requirement and
19 just reinforce, I think, that the project finance
20 model creates the opportunity to build a very robust
21 license condition because it actually sets a very high
22 standard for before you begin construction what
23 resources you have to demonstrate that you already
24 have in place.

25 And I think we can go ahead and move on to

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1 the next slide. So, first off, just a little bit on
2 the legal background. The Atomic Energy Act doesn't
3 impose any specific financial qualifications
4 requirement.

5 Rather, it gives the NRC the authority to
6 require information to demonstrate financial and
7 technical qualifications, and the court cases I think
8 are fairly clear saying that, you know, the Act gives
9 the NRC complete discretion to decide what financial
10 qualifications are appropriate.

11 The NRC has adopted, obviously, a rule, a
12 regulation - a regulation that we all have to live by
13 and one of the important thing in looking at that
14 regulation - I think one of the most important things
15 is to look at what is the purpose of that financial
16 qualification and requirement and it is to, you know,
17 protect the public health and safety and assure that
18 a licensee that is constructing a project has adequate
19 resources to construct that project, it's not going to
20 cut corners, that a licensee that's operating a
21 project has adequate resources to operate the project
22 safely.

23 So the fundamental purpose here is safety.
24 It's not a question of evaluating the financial wisdom
25 of the proposed project. It's not an economic test.

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It's not - it's not the NRC's role to insist that a project be economically liable or proven to be economically liable before a license can be issued.

6

7

That's the decision that investors are supposed to make and rate regulators and states in the context of cost of service utilities.

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And I will point out that we're suggesting the use of a license condition here and we talk about merchant generators and we talk about the purpose of the license or the - that a license condition may be essential for some merchant generators. Certainly, we feel it is for Nuclear Innovation North America.

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But this concept could also be used by cost of service utilities. In fact, you have some cost of service utility applicants with new plant applicants that are pending right now that are not necessarily racing to construction, that don't have the kind of rate treatment that they want in order to move forward with projects.

22

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And, you know, they could make a decision to say well, we want to go ahead and get a COL but we're not in a position to say we're going to get the rate recovery that we expect to get to build the plant

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1 but rather we need to fashion a license condition that
2 says give us the COL.

3 When we get, you know - for example in
4 Missouri, I think, for the project in Missouri they
5 were trying to get the state to enact specific
6 legislation to provide incentives for construction.

7 So, you know, that utility might want a
8 license condition that says, you know, when we have
9 legislation in place that provides for this kind of
10 construction recovery of costs for work in progress
11 and we can - we can demonstrate that we've got that
12 legislation in place we want a license condition -
13 that that's the point at which we would be authorized
14 to begin to construct.

15 But we're not - we can't tell you right
16 now that we have rate recovery that we're going to use
17 because we don't. We don't have what we need.

18 So this concept of license condition, I
19 think, has much broader implications and could - can
20 be used effectively not just for merchant generators.

21 Let me go ahead to the - to the next
22 slide. The Commission - or the NRC staff and the
23 Commission has in the past used license conditions to
24 satisfy the financial qualifications requirement and
25 I think the - probably the most important one I elect

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1 to emphasize and focus on is the private fuel storage
2 case which is a Part 72 licensee, and you look at the
3 test in 72.22(e) and I want to note 10 CFR 72.22 is
4 contents of the application.

5 It's a regulatory requirement that says
6 your application has to provide information that shows
7 that you either possess the necessary funds or have
8 reasonable assurance of obtaining the necessary funds
9 to cover estimated construction costs.

10 Okay. And the situation there was that
11 the applicant was in a position where he said, well,
12 we can't show you that - we can't give you information
13 in our application regarding contracts that we have in
14 place to fund this facility.

15 We can't get those contracts because the
16 marketplace won't sign up until we have a license. So
17 give us a license with a license condition and then we
18 will satisfy that license condition by showing you
19 that we've obtained those contracts.

20 Okay. So concept, the application did not
21 include the required information. Instead, the
22 Commission ruled that a license condition could be
23 used to satisfy that information requirement.

24 All right. And the Commission in these
25 cases, to be fair, said look, the standards for Part

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1 72 licenses and Part 70 licenses for financial
2 qualifications are different than for reactors.

3 All right. The Commission said that. And
4 there isn't an Appendix C like we have in Part 50 with
5 - you know, with additional information that's
6 specified in Appendix C for a Part 72 license.

7 However, the license condition that was
8 used in those cases was not nearly as robust as the
9 kind of license condition we're talking about there.

10 The license condition there was we'll show
11 you we have some contracts that we think are bankable
12 and then we'll go out to a bank and get a loan.

13 They didn't even say in order to satisfy
14 the condition we have to show you we have the loan.
15 It was just contracts.

16 Okay. What we're proposing here for a
17 reactor is a much more robust license condition that
18 is premised on I've put the entire lending package
19 together.

20 I have it all sewed up to the point where
21 I've got lenders that are willing to loan billions of
22 dollars on the bet that I will have enough committed
23 equity and funding and other letters of credit to
24 complete the construction of the project.

25 And as Ken was pointing out, I mean, the

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1 idea here is the lenders are looking at this that they
2 want to be in a position that they can step in and
3 complete the project and get their money back.

4 The project sponsors can fail and they
5 still will be able to get their money back. That's
6 how they're looking at the project.

7 Now, in the context of a nuclear plant,
8 obviously, they can't just do that. They would have
9 to come in to the NRC and say hey, you know, the
10 project's bankrupt. We want to take it over.

11 You know, we want a license transfer.
12 We're going to have, you know, a new O&M contract or
13 whatever it is or a new partner that's going to take
14 the project forward.

15 We'd go through a 5080 license transfer
16 process and then we'd go forward on that basis.

17 But just very, very important. So I'm not
18 saying that the banks can just step into the project.
19 The banks are evaluating the project on the basis that
20 they need to be able to think - to figure that they
21 can step in and complete the project and get their
22 money back.

23 Again, project finance principles we're
24 talking about. They're employed in situations where
25 you have - where the country, you know, the government

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1 is the sponsor and lenders don't trust that the
2 country will be able to finish the project, okay.

3 So they still want the assurance that they
4 could step in, finish the project and get their money
5 back. All right.

6 Those are the standards that are used in
7 the context of these large infrastructure finance -
8 project finance projects.

9 The other point I wanted to make on this
10 slide is, you know, we look to Appendix C and I think
11 that we can show and we will show that the license
12 condition we're talking about would have elements
13 through which when you satisfy the license condition
14 we can show that - the licensee will have shown all of
15 the information that is specified in Appendix C.

16 But we keep talking about Appendix C as if
17 it's a rigid requirement. Appendix C is a guide.

18 I mean, it says in the title, you know,
19 guide of the kind of information we need for financial
20 qualifications.

21 Appendix C says the kind and depth of
22 information described in this guide is not intended to
23 be a rigid and absolute requirement. Appendix C
24 itself has embedded in it the flexibility for this
25 agency to consider the context of an applicant.

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1 The other point I wanted to make about
2 Appendix C too is there are additional tests in
3 Appendix C for newly formed entities.

4 Fundamentally, even the provisions in
5 Appendix C that talk about newly formed entities say
6 it's basically the same information as preexisting
7 entities or existing entities that we're looking for.

8 It's just newly formed entities, you know,
9 usually aren't able to provide the kind of information
10 that existing entities provide.

11 Now, if you look at the information
12 required from an existing entity it's, you know, your
13 last year's annual report or certified annual audited
14 financial results.

15 NINA was formed in February of 2008, okay.
16 We have five years of audited annual financial
17 reports, okay, that we can present.

18 It's - unfortunately in this process
19 getting a COL you might start off as a newly formed
20 entity but before you get your license you're not.

21 And, I mean, you know, a billion dollars
22 has been run through this company, okay. That's what
23 we've spent. So I'm not talking about annual reports
24 that say, you know, \$100,000 or, you know, in and out
25 of the company.

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1 We're talking about a billion dollars over
2 the last five years of audited financial results for
3 Nuclear Innovation North America.

4 And I really think that any applicant
5 you're dealing with that is deploying a plant on a
6 merchant basis, that is serious about building, that
7 is trying to get to the point of getting a COL, will
8 have spent literally hundreds of millions of dollars
9 before they're going to receive a COL.

10 It's not possible today for an entity to
11 get a COL without spending somewhere north of \$100
12 million.

13 So let's go on and move to the next slide.
14 So the kind of license condition that we've proposed
15 here is a plan to obtain funding through, actually in
16 NINA's case, a DOE loan guarantee and a loan from the
17 United States Federal Finance Bank and that's the kind
18 of condition we're talking about here.

19 So in NINA's case, the kind of project
20 finance we're talking about you don't have to just
21 take Ken's word for it as to what project finance
22 means.

23 You can look to the DOE's loan guarantee
24 program and its regulations for implementing that
25 program which established the standards by which it

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1 will guarantee a loan. So here in 10 CFR 609.10(d)
2 there are a number of requirements. But, I mean, Ken
3 will tell you the DOE developed its rules using basic
4 project finance principles, I mean, so that the
5 project - the regulations - DOE's regulations embody
6 essentially the project finance principles that we're
7 all talking about here today.

8 And to, you know, reemphasize this point
9 that the banks expect the project to be completed in
10 order to get their money back, they're not - NRC's
11 regulations say you have to show reasonable assurance
12 that you'll have adequate funds to pay your estimated
13 construction costs.

14 That's not the test the banks are using.
15 The banks are insisting that there's an expectation of
16 adequate funds to fund not only your estimated
17 construction costs but lots of contingency, potential
18 costs overruns that, you know, we have other
19 additional sponsor support or, you know, limited
20 recourse kinds of support to handle unexpected events.

21 So, you know, the test of the NRC is well,
22 here's your construction - here's your estimate, you
23 know, do you have adequate funds to cover it and the
24 banks are requiring a lot more than that.

25 And I know in NINA's case, you know, our

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1 estimated construction costs we ultimately just - it
2 came down to well, we're not going to just give you
3 our estimated construction cost.

4 We're going to give you our estimated
5 construction cost plus all the contingency and the
6 extras that DOE is forcing us to add into the - into
7 the mix.

8 But it really is going beyond what the
9 regulation actually says. So and then the second key
10 aspect of the regulations I'd like to emphasize is
11 that there is a requirement that there's a reasonable
12 prospect of repayment.

13 So and before DOE is going to issue the
14 guarantee, before the United States Federal Finance
15 Bank is going to give the loan, they're going to be
16 doing the analysis that says yes, this project is
17 economically viable, is not only going to be able to
18 have enough money to construct but is also going to
19 generate sufficient revenue to repay the loan.

20 Go ahead to the next slide. I went to the
21 wrong page. I think we've already covered six - yes.
22 So let's - yes, let's go to seven.

23 I mean, the key here is and there's a
24 major difference between the license condition that's
25 being proposed and issuing a license, say, for

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1 example, you know, the agency made positive financial
2 qualifications findings for Vogtle and for - and for
3 the SCANA project for Summer.

4 And those positive finance qualifications
5 findings were based upon, you know, reasonable
6 assurance of funding based upon well, those utilities
7 are going to in the future go get money from the rate
8 payers. They're getting some money now from the rate
9 payers.

10 They'll be able to continue to get money
11 from the rate payers and so that provides the
12 assurance for construction and that's the basis for
13 this to work.

14 Those license are issued - those licensees
15 have the authority then to construct, to continue to
16 construct the plant and obtain the funding while
17 they're doing the construction.

18 They don't have everything in the bank up
19 front. What we're suggesting here as a license
20 condition is that we get a COL where we have no
21 authority to construct.

22 We can't begin construction until we've
23 satisfied a condition and the condition that we're
24 proposing that we satisfy is we have sewn up all of
25 the money. There's - you know, under this project

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1 finance model there's no, you know, sort of betting on
2 an expectation that three or four years from now we'll
3 be able to continue to get funds.

4 Really, the construction funding is sewn
5 up up front to fund the entire project.

6 In addition, the plan here, obviously, is
7 to use the DOE loan guarantee program for NINA. And
8 I just wanted to run through one other thing.

9 If we could go to the last slide, and I
10 handed out - and I know Dave is going to talk to, you
11 know, how do we close out the license condition.

12 I just wanted to try and - you know, in my
13 mind the verification of satisfaction of this license
14 condition might sound like a very daunting task and
15 certainly there will be, you know, big stacks of paper
16 involved.

17 But it really boils down to several very
18 simple questions. All right. So it - I just made
19 here a hypothetical example of a single unit plant
20 with a \$7.7 billion construction cost estimate.

21 And, you know, under DOE's rules before
22 the - before the financial closing of the - you know,
23 the loans and the loans guarantee there is an
24 independent lender's engineer that does cost estimate
25 - that updates the cost estimate, makes sure that the

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1 cost estimate, you know, that you had a year or two
2 ago is still accurate.

3 And so, you know, you go through that
4 process and you'll have that number so you'll - in
5 this case that number is \$7.7 billion.

6 All right. So the first stack of
7 documents you'll have will be a credit agreement, a
8 note. There will be a face amount and it'll be the
9 loan from the Federal Finance Bank and it'll be \$4
10 billion.

11 And so you're going to look at that and
12 say well, okay, there's \$4 billion, check the box,
13 Federal Finance Bank. Obviously, you know, a decent
14 lender.

15 Next piece an export credit agency. So
16 let's say the export credit agency is, you know, Korea
17 Export-Import Bank - you know, a government-supported
18 agency, a foreign agency.

19 Obviously, good credit quality - face
20 amount \$1 billion. Okay, check that box.

21 Other first lien debt - this project is
22 able to get a loan from CITI Bank to support the
23 project, \$400 million with first lien debt. It's
24 going to have a face amount on the note, \$400 million,
25 at CITI. You know, check the box.

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1 A debt service reserve which will be
2 either - actually probably likely funded dollars,
3 right? Cash in that account for the debt service
4 reserve?

5 MR. HANSEN: Dollars or letter of credit.

6 MR. J. MATTHEWS: Or a letter of credit.
7 Or a letter of credit from an obviously qualified
8 financial institution. So \$250 million.

9 Decommissioning fund collateral - that's
10 likely to be a letter of credit in the Texas examples,
11 for example, using the Texas decommissioning model,
12 which relies on a state statute that says as long as
13 you provide some assurance that there's a rate payer
14 backstop, essentially.

15 So if the project goes bust the rate
16 payers will pay for decommissioning like a cost of
17 service utility.

18 All right. So \$100 million, check the
19 box. PPA collateral, again, letter of credit. Check
20 the box.

21 Working capital - Wells Fargo is going to
22 provide \$100 million in, you know, working capital.

23 So you'll have a credit agreement, you'll
24 have that. And then there'll be an inter-creditor
25 agreement that specifies the rights among all of these

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1 - all these parties.

2 Those credit agreements, security
3 agreements, inter-creditor agreements, they are the
4 legal and financial relationships between the lenders
5 and the borrower.

6 So Appendix C talks about, you know,
7 providing information with specificity about the legal
8 and financial relationships with the lenders.

9 In the project finance, you know, I got
10 it. Here it is. It's a credit agreement. This is
11 what it says, you know.

12 I mean, these are the - you know, if you
13 want to get into the details and look at what a
14 default is and what rights there are on a default, you
15 know, it's all there. That's the legal contract that
16 specifies all of those relationships.

17 Then, finally, you get down to the - the
18 banks are going to have agreed, okay, with the project
19 sponsors.

20 Well, how much credit do you get for money
21 you've already spent, your contributed development
22 expense, and there's going to be some piece of paper
23 that verifies what that amount is that the banks have
24 agreed to - \$200 million, check the box.

25 The banks are going to have agreed to a

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1 contributed site and common facilities value. Most of
2 the projects now are being built on existing sites.

3 So you've taken an existing site. It has
4 value - you know, it's a brownfield site. It's got
5 transmission, you know, capacity.

6 South Texas project the common facilities
7 include, you know, the main cooling reservoir, a
8 6,000- or 7,000-acre main cooling reservoir with water
9 rights for two units.

10 Well, in Texas water rights for two
11 nuclear units is a pretty valuable asset. All right.
12 So the banks are going to have agreed.

13 Now, quite frankly, the book value may be
14 a lot more than that but this is just going to be the
15 value that the banks agree you can take credit for.

16 And then, finally, your cash equity - how
17 much - whether it's cash equity or whether it's a
18 sponsor equity commitment, the documentation for that
19 will be there, what the banks have agreed to, and
20 they'll have face amounts.

21 You'll be able to look at the amount. You
22 check the box. You add all those numbers up. They
23 add up to \$7.7 billion. License condition is
24 satisfied.

25 And so, you know, it sounds very

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1 complicated but it really is not that difficult to
2 verify that this license condition has been met
3 because of the rigor with which the banks will require
4 documentation for the project finance.

5 That's all I have.

6 MS. GINSBERG: Okay. David?

7 MR. REPKA: Okay. I'm Dave Repka and I'm
8 with Winston & Strawn.

9 MS. GINSBERG: Third one down.

10 MR. REPKA: That's it. Okay. So at risk
11 of being a little bit redundant here, what I think I
12 want to address in my remarks are - I think really
13 what the ultimate question in the room is which is can
14 the NRC do this - is it within its authority and how
15 will it work, and I think the answer to that is yes,
16 the NRC - it's well within its authority to impose the
17 license condition at the time of licensing. This is
18 not something new or different.

19 It's no different than the way it works in
20 any other regulatory context on any other NRC
21 regulatory issue and I think the closeout process is
22 fairly straightforward.

23 So with that, I think we're all familiar.
24 We've heard about what the issue is for the non-
25 utility generators.

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1 The financing - the money in hand comes
2 only later when the project finance closes and the
3 project finance will close only at a time when the
4 licensee has decided that this project is marketable -
5 is viable and the market conditions dictate that they
6 can go ahead and construct a plant.

7 And I think that the Reg. Guide 1.206
8 already recognizes the fact that the application at
9 the time of the application, at the time of the COL
10 issuance, there may not be a precise schedule for
11 actual construction of the project.

12 So I think the timing, the fact that
13 there's delay in actual construction I think is
14 something that the Reg. Guidance already recognizes.

15 I think it's also important to underscore
16 yet again that the COL issuing itself it is a
17 necessary prerequisite for construction, for project
18 finance.

19 It's essential to the project finance
20 lenders to have that regulatory certainty. So that's
21 - you know, hence we have this timing disconnected to
22 results for license condition.

23 Next slide. I think that there is a large
24 amount of outstanding NRC case law that addresses the
25 issue of license conditions and whether - when are

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1 they appropriate and where they are appropriate.

2 John has mentioned the ones already in the
3 specific context of financial qualifications, the LES
4 and PFS cases.

5 But those are just specific examples of a
6 much broader proposition and quoting there from the
7 NRC's appeal board back in 1985 there's a recognizing
8 a settled principle that licensing findings can be
9 predictive findings and that they're a legitimate part
10 of the NRC licensing process.

11 Now, what does that mean? It means that
12 the NRC at the time of licensing recognizes that there
13 are some things that can come later that will be
14 confirmed, and we'll talk a little bit - in a minute
15 I'll talk a bit about the - exactly what was going on
16 in that case.

17 But this idea that the NRC makes a
18 reasonable assurance finding and issues the license
19 subject to verification of certain conditions later it
20 is the broad principle.

21 It's legally recognized. The NRC's own
22 Part 52 regulations for COLs that create the ITAAC
23 process are another manifestation of that same legal
24 principle. Not the only one but a - but Part 52 ITAAC
25 are a specific embodiment of that idea that the COL

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1 can be issued with conditions that have defined tests,
2 acceptance criteria, inspections that can be completed
3 prior to operation of the plant.

4 And again, Part 52 has a precise closeout
5 mechanism. That doesn't need to be the closeout
6 mechanism for every license condition but it certainly
7 provides a model.

8 Next slide. So in the Diablo Canyon case
9 what was happening there was you had a construction
10 quality verification program underway with the
11 recognition that certain deficiencies had been pointed
12 out and will be identified through the QA verification
13 process.

14 The NRC is making its findings for
15 operation in those states with an OL based on
16 reasonable assurance that the process provides that
17 the plant can be operating safely with a recognition
18 that certain corrective actions will need to be taken
19 to address deficiencies identified.

20 The corrective actions can be - an
21 implementation of corrective actions can be addressed
22 as a post-licensing inspection enforcement matter.

23 NRC licensing boards have also recognized
24 that the predictive nature of a reasonable assurance
25 finds in the context of emergency planning that the

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1 licensee has submitted an emergency plan that shows
2 that effective emergency planning actions can be
3 taken.

4 The regulations require reasonable
5 assurance that they can and will be taken. The NRC
6 has the plan and - but there's a recognition that in
7 the future under the regulations and perhaps license
8 conditions there will be exercises of the plan on a
9 certain periodicity.

10 And the NRC will confirm the exercise,
11 confirm corrective actions as part of a routine post-
12 licensing inspection enforcement function.

13 So, again, there's a recognition that the
14 NRC's authority doesn't end with the issuance of the
15 license. It's just moving to a different process.

16 I think - I think we all recognize and the
17 cases recognize that a license condition has to be
18 objective and verifiable.

19 The NRC can't be deferring a ministerial
20 action or a discretionary action that's necessary that
21 it has to exercise prior to licensing and needs to
22 make part of its hearing process.

23 We're not proposing kicking any discretion
24 down the road. What we're proposing is that at the
25 time of licensing all of the requirements will be met

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1 and that the license condition will impose things that
2 can be verified that are objective and confirmatory in
3 nature.

4 Now, one of the handouts that we prepared
5 here is a - is a matrix of NRC financial qualification
6 requirements, and I won't go through and check all
7 aspects of this but the idea is to show that the NRC
8 is making at the time of licensing a present finding
9 of reasonable assurance that the funds will be
10 available.

11 The regulations themselves require that
12 the applicant demonstrate that the applicant possesses
13 or has reasonable assurance of obtaining the funds
14 necessary, and that's the finding that the NRC is
15 making at the time of licensing based upon the process
16 that John and Ken talked about later, subject to
17 confirmation and specific terms of a license
18 condition.

19 Now, one of the questions I think that was
20 asked last week on the call that we wanted to address
21 was the question is this a waiver, and a license
22 condition is not a waiver. It's not an exemption.

23 A license condition is something different
24 entirely. It's a confirmatory action to be closed out
25 through inspection and enforcement. It doesn't

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1 require an exemption. It's not a waiver of any
2 requirements. All requirements are being met.

3 I think that - yes, the next question
4 becomes is can we have confirmatory license conditions
5 that fit this context that are appropriate, that
6 involve specific objective verifiable criteria.

7 And I think that's - everything that Ken
8 has been talking about and John has been talking
9 about, I think, are - provide the basis for exactly
10 that discussion and I think demonstrate that there can
11 be those kinds of criteria.

12 NINA has proposed a specific license
13 condition. NEI has proposed that license condition.
14 That's not the only way to write the license
15 condition.

16 That is a model license condition. It's
17 a suggestion. I think that every licensee's - every
18 applicant's case is going to be different.

19 I think, clearly, that the terms - the
20 precise terms of the license condition are something
21 that would be worked out in the licensing process.

22 You know, in this checklist that John
23 talked about earlier certainly shows that the kinds of
24 things that can be put into a license condition and
25 subject to post-license and confirmation can be very

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1 objective and very verifiable and easily verifiable
2 through the process.

3 But, again, that's something that would be
4 addressed case by case what the specifics of those
5 things are with a focus on what does the NRC need
6 under its requirements at the time of licensing and
7 recognizing that it's a reasonable assurance finding
8 and based upon a process that will follow later.

9 John alluded to the fact that electric
10 utilities rely on the rate process, the rate making
11 process - process service rate making to demonstrate
12 reasonable assurance. And what we're talking about
13 here is really no different.

14 We're talking about reliance on a process
15 that will provide the funding, and at the time of
16 licensing for an electric utility the NRC does not get
17 into the details of the rate making process and, you
18 know, and try to anticipate what the future is going
19 to be, what issues come up - might come up in the rate
20 making process - you know, when the state public
21 utilities commission might decide that funds have been
22 imprudently spent and won't allow a cost recovery.

23 Those are issues that are not necessary to
24 be resolved at the time of licensing. If there were
25 specific problems later with respect to financial

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1 qualifications, again, the NRC has all the regulatory
2 authority under the Atomic Energy Act to address real
3 conditions when they arise in the future.

4 So the specific terms go to what's
5 necessary to find reasonable assurance based on this
6 process that's going to apply - this elaborate project
7 finance process where many of the stakeholders in that
8 process will assure themselves that the project is
9 viable and that the funds will be there.

10 So I think - and, you know, as John
11 already pointed out, the DOE loan facility under the
12 DOE loan guarantee program generally what we've seen
13 there is there's also a substantial number of
14 conditions precedent to closing on the loan facility.
15 And, again, that's another model that shows that there
16 are verifiable criteria.

17 Next slide. So in terms of the closeout
18 then, the precise nature of it will depend upon the
19 terms of the condition but more broadly speaking, the
20 NRC staff will review and confirm satisfaction of all
21 licensing conditions at an appropriate time such as
22 upon closing of the project finance.

23 This is similar to verification of the
24 closeout of a QA deficiency, a corrective action,
25 completion of the exercise, and the other things - in

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1 fact, completion of all the ITAAC that are necessary
2 prior to operation under Part 52.

3 The license condition can include specific
4 notification provisions. We've seen that, certainly,
5 in the license transfer approval context where the NRC
6 will issue a approval, a consent to a license transfer
7 subject to certain notifications, so many days prior
8 to closing on the license transfer.

9 And, you know, similar if there's
10 something that the NRC needs to know about, the time
11 of the closing or the project finance or some
12 particular detail that it needs in order to execute
13 its closeout, that certainly can be included in the -
14 in the license condition, the notification
15 documentation requirements.

16 Then in terms of the actual documentation
17 for the public of the - of the closeout, that would be
18 presumably in an inspection report or any other
19 regulatory vehicle that the NRC sees fit to document
20 closure of a confirmatory action, and it's no more or
21 less than that.

22 So next slide. So, in general, again,
23 just to emphasize, a license condition in this context
24 it's not a novel concept. It's certainly something
25 that's recognized in NRC practice.

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1 The NRC licensing requirements for
2 financial qualifications will be met based upon a
3 reasonable assurance finding, backed up by the
4 confirmatory license condition, and then the NRC
5 confirmation and closeout is a post-licensing
6 activity.

7 It's part of the NRC's broader regulatory
8 program and I think, again, I'd underscore that the
9 licensing review and issuance of the license does not
10 end the NRC's authority.

11 So, certainly, other problems, other risks
12 that become more coherent later in the process the NRC
13 will not be helpless to address those issues through
14 its process.

15 MS. GINSBERG: Okay. So with that, that
16 is the formal part of our presentation. We've done
17 our level best, of course, to answer the questions
18 that you've asked.

19 But I suspect there may be points of
20 discussion that you'd like to pursue so I understand
21 we're now supposed to have a break. So now would be
22 a good time.

23 We'd be happy to do that and come back and
24 answer whatever questions you might have.

25 MR. CHAZELL: Sounds good.

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1 MR. NIEH: Why don't we plan on coming
2 back at 9:30?

3 MS. GINSBERG: Sure.

4 MR. NIEH: And then we can start?

5 MR. CHAZELL: Okay. Great.

6 (Whereupon, the above-entitled meeting
7 went off the record at 9:14 a.m. and resumed at 9:31
8 a.m.)

9 MR. CHAZELL: Okay. We are back in
10 session now.

11 I'd just like to remind people on the
12 phone that if you have questions to identify yourself
13 when we get to the end so that the transcriptionist
14 can get your name and we'll just start now with - I
15 know Anneliese had some questions and we'll just start
16 from there.

17 MS. SIMMONS: I'm going to try to keep my
18 questions brief. My sister is actually in labor at
19 George Washington Hospital at this moment and so my
20 attention may not be focused on the slides.

21 But thank you for the slides and the
22 explanation. It was really helpful, and I'm going to
23 take advantage of Mr. Hansen's presence because we -
24 the staff is really interested in learning about some
25 of the issues related to private finance so we can

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1 have an understanding of this.

2 Okay. One of the - well, I want to start
3 by saying we've - the Commission has addressed, you
4 know, I'm - we're on the staff so we are restricted
5 into our authority to be able to reinterpret the
6 requirements, okay.

7 And the Commission has addressed actually
8 merchant plants' financial requirements in the past
9 and so my question for you is when we talk about
10 private finance one of the issues, the kind of
11 underlying assumptions, I think, in this proposal is
12 that safety doesn't begin until construction, okay.

13 When we look - now, the staff's theory is
14 that safety begins at design, goes all the way to
15 decommissioning and we have these triggering points of
16 financial reviews throughout the process.

17 Okay. So our perspective might be a
18 little bit different. And what we're looking at is
19 what happens between - right now we have a requirement
20 that project sponsors and project sources of funds be
21 identified at licensing and then construction can
22 happen after that.

23 And I think what maybe is - the thinking
24 here and the philosophy is that nothing that happens
25 between that time really is related to safety, okay.

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1 Now, you talked about the development
2 phase. We have - I was wondering if you were familiar
3 with some of the research done by Ed Merrow about mega
4 projects, and one of the things he says that we think
5 was sort of interesting is that it's very important
6 that the deal drive the scope and that if the deal,
7 the financial deal, is not set up and really worked on
8 earlier, way before financial close, okay, and that
9 money is not spent before financial close to really do
10 a thorough front-end loading, okay, you actually will
11 have - there's some correlation with operational
12 problems later.

13 And I just thought - I'd just like to know
14 your views on that.

15 MR. HANSEN: Sure. Well, I think - I
16 think two thoughts. One, though you may not have the
17 financing until financial close, you're thinking about
18 financing from long before you've met your first bank
19 and you're looking at, frankly, every contract you
20 enter into as to its financeability.

21 So and depending on what financial
22 institution you work with some want to be involved
23 earlier in the process just because they want to get
24 their licks in early so that you're not having to
25 amend project documents in order to make them happy.

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1 They might even let you know their view on this that
2 early.

3 Others, actually not so much. Life is
4 short. You guys put it together. You know what you -
5 what we expect if you don't get counsel who does or
6 financial advisers who do, and just make sure you meet
7 our standards which are well known in the market
8 place.

9 And then so the due diligence process
10 often is more confirmation that you've done things
11 appropriately.

12 So you're thinking about financing from
13 day one, not to mention far earlier than financial
14 closing.

15 Then two, among the things about which
16 you're thinking actually I hadn't thought about safety
17 issues at all going into this so I don't - but I can
18 tell you that certainly the agency lenders involved -
19 international agencies, U.S. government, Department of
20 Energy's program was mentioned and increasingly
21 certainly in the last years, the commercial banks as
22 well - have propagated or adopted one way or another
23 social environmental policies which include worker
24 safety, community safety.

25 And those standards and your compliance

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1 with those standards are among the things about which
2 you have to worry in order for the project to be
3 financeable.

4 So in terms of being concerned that your
5 project when built will, as it's being built through
6 the construction process and then certainly as it's
7 operating, will comply with, you know, your bank's
8 standards, not to mention licensing requirements of
9 the community, et cetera, environmental requirements.

10 That's all very much part of the picture
11 so it's not something that is suppressed until
12 financial close by any means.

13 MS. SIMMONS: Right.

14 MS. GINSBERG: Anneliese, can I ask a
15 question please? You were - you were suggesting that
16 Mr. Merrow's works suggests that the deal drive the
17 scope of the project and then you talked about front-
18 end loading. Front-end loading of what?

19 MS. SIMMONS: Well, I think if I could
20 just address my questions to Mr. Hansen that would be
21 helpful.

22 But I think that the idea is is that
23 there's a lot of work that happens in the scoping and
24 if that isn't done adequately there will be - there's
25 a correlation with operational issues that would be a

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1 concern to the NRC.

2 We're not concerned with cost overruns.
3 I agree. We're not necessarily concerned with
4 schedule slippage.

5 What we are concerned is quality of the
6 construction and if there are any operational issues.

7 So we've tried to look at some of that
8 empirical research just to kind of inform the
9 decision.

10 MR. J. MATTHEWS: Anneliese, though, there
11 were a couple of false premises in your question
12 regarding industry's position and regarding the state
13 of the law as I understand it..

14 So I think it's critical that we clarify
15 that. And first off, nobody in industry is saying
16 that safety is not important prior to beginning
17 construction.

18 All right. Every licensee that is an
19 applicant understands its safety responsibilities
20 during the design and construction phase and no one in
21 the industry is saying that money is not important to
22 that process.

23 During the development phase the money is
24 being funded, obviously, by the developers.

25 In our case with NINA, we've spent over a

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1 billion dollars, okay. That money being spent is the
2 assurance that there is - nuclear safety is being
3 looked after during the design process and we're
4 finally to the point where it's only a matter of, you
5 know, millions of - millions of dollars to get to the
6 point of having a COL.

7 But we've spent a billion dollars to
8 assure safety in the preconstruction phase.

9 Once we have a COL, the amount of money
10 you need to spend to just, you know, kind of keep the
11 design on the shelf is not incredibly large.

12 So the industry's position is you can
13 fashion a license condition around satisfying the
14 requirement to demonstrate the full availability of
15 funds to construct based upon closing this license
16 condition because before you begin the major
17 construction activity there's relatively little money
18 that needs to be spent.

19 The core safety issues that, you know,
20 when you're under construction of a multi-billion-
21 dollar project that's what you need to assure that we
22 have the money to fund after construction commences.

23 Secondly, I disagree with the fundamental
24 premise that the regulations require that you
25 demonstrate the funding before you get a license.

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1 That's - I think we have a fundamental
2 disagreement about that in that the Commission has
3 ruled in the private fuel storage case and elsewhere
4 that you can use a license condition to satisfy the
5 requirement for showing reasonable assurance for - of
6 obtaining funds.

7 And so it's a false premise to say that
8 there is a clear regulatory requirement that you
9 identify all of the sources of funds and that you
10 can't satisfy the identification of sources of funds
11 with a license condition.

12 MS. SIMMONS: Okay. Well, the way we look
13 at it is we need to - the rule says identify source of
14 funds so that's - these are the staff's perspective on
15 that. And if we don't have those identified sources
16 of funds we may have a different view of that.

17 We're just challenged in sort of how the
18 process works. I think another question would be for
19 Mr. Hansen.

20 You mentioned that - you said, John, that
21 not much money needs to be spent. I wasn't sure about
22 what you said before construction to ensure safety.

23 MR. J. MATTHEWS: After you've completed
24 the entire technical review you've issued a COL, okay.

25 You've spent a billion-plus dollars

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1 getting the license, the amount of effort that needs
2 to be made to maintain the license on a shelf when
3 you're not beginning to construct is relatively small.
4 I mean, there are -

5 MR. REPKA: Let me add to that. We are
6 talking about a COL and much of the design work may
7 have already been done through the design
8 certification process.

9 MR. J. MATTHEWS: Exactly, and -

10 MR. REPKA: We're not talking financial
11 qualifications -

12 MR. J. MATTHEWS: And if you're talking -
13 if you're talking about spending money on detailed
14 design that's intended to be done during construction,
15 you just - it's not realistic that a licensee is going
16 to spend a lot of money doing that unless you have -
17 you have, you know, the funding for it and you're on
18 the path to satisfying the license condition and have
19 a financial close.

20 MR. MCBURNETT: Mark McBurnett, NINA.
21 Just as a practical matter, this license condition
22 proposed would preclude us from having any licensed
23 activity disruption prior to financial close and it
24 wouldn't preclude us from doing everything we can do
25 today or things you could have done yesterday, all

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1 pre-construction activities under the rule.

2 We could basically build most of the parts
3 of the plant as long as we don't go into what is
4 defined as construction.

5 So what we're really precluding with this
6 license condition is entry into actual construction or
7 licensing.

8 If anything that we're doing is before
9 that, before financial close, it's the same thing they
10 could do - from a safety standpoint of the issues.

11 MR. J. MATTHEWS: And there isn't a
12 financial qualifications requirement to be an
13 applicant.

14 MS. SIMMONS: Right.

15 MR. J. MATTHEWS: You know, and then so
16 you're already dealing with this issue. You're
17 trusting that, you know, that an applicant is
18 complying with your requirements and you're relying
19 upon the fact that you're conducting reviews, that
20 you're inspecting those activities to make sure that
21 safety isn't compromised.

22 But you haven't - you haven't imposed any,
23 you know, threshold requirement - financial
24 qualifications requirement to become an applicant and
25 engage in serious nuclear safety design activity.

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1 MS. SIMMONS: Right. Although we did
2 waive the financial qualifications requirement for a
3 manufacturing license on the basis that our licensees
4 would be financially qualified.

5 So I think, you know, there's some
6 question about whether it's interrelated. But I guess
7 I have a question for you because you're familiar with
8 the DOE loan process.

9 In your experience, hasn't the DOE issued
10 conditional loan agreements long prior to financial
11 close?

12 MR. HANSEN: Well, yes. But they're
13 conditional commitments, right?

14 MS. SIMMONS: Correct.

15 MR. HANSEN: And so those are -

16 MS. SIMMONS: That are verifiable at
17 financial close.

18 MR. HANSEN: Well, I mean, they're
19 verifiable from the moment they're issued. They're
20 signed by the secretary.

21 MS. SIMMONS: Right. Right.

22 MR. HANSEN: But they're a step along the
23 way to financial close just as a function.

24 It's, frankly, fairly parallel to the way
25 a lot of the commercial market works but it works

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1 exactly that way because it was the final rule -

2 MS. SIMMONS: Sure.

3 MR. HANSEN: - you know, propaganda for
4 the DOE loan guarantee program that thou shalt first
5 issue a conditional commitment and then -

6 MS. SIMMONS: Do you need -

7 MR. HANSEN: - in due course go to
8 financial close.

9 MS. SIMMONS: But you don't need a COL
10 before you get a conditional commitment?

11 MR. HANSEN: There's nothing like that in
12 the regulations.

13 MS. SIMMONS: Right.

14 MR. HANSEN: As a practical matter. I'm
15 not sure as a diligence matter what they're requiring.
16 But I take it not, yes.

17 MS. SIMMONS: I have a question just about
18 if a licensee were given a COL but you mentioned a
19 couple times that the financial model has to work.

20 If they were issued a COL but the
21 financial model didn't work, would they - would you
22 provide financing?

23 MR. HANSEN: No.

24 MS. SIMMONS: I guess I just have one -

25 MR. HANSEN: Having said that, in the

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1 financial model is a description. If the financial
2 model doesn't work, the simple answer is you would fix
3 it if you could.

4 MS. SIMMONS: Sure.

5 MR. HANSEN: If the reason it doesn't work
6 is because you don't have enough revenues or the
7 expenses are too great to build it or too great to
8 operate it and so when it works perfectly it just
9 shows that you have poor debt service coverage.

10 MS. SIMMONS: Right.

11 MR. HANSEN: If the financing doesn't work
12 the financial model, I suppose, works perfectly just
13 to show that the project doesn't make sense.

14 MS. SIMMONS: And that the due diligence
15 process is to verify that there will be some through
16 the non-recourse process that you would have enough to
17 cover.

18 MR. HANSEN: Although to be fair, I don't
19 know that I've ever seen a project where that was an
20 issue because it wouldn't have gotten that far because
21 the first cut of the financial model is going to be
22 put together by the equity investors who, at the end
23 of the day, would like to make some money here.

24 And if their cut at the - and the costs
25 and benefits of doing the project don't add up they're

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1 probably not going to go much further.

2 MS. SIMMONS: Right. Okay. So - okay.
3 Thank you.

4 MR. DUSANIWSKYJ: Just to follow up, so a
5 COL would not - that kind of pace would it hurt?
6 Would it help?

7 MR. HANSEN: Well, what it helps is as,
8 you know, as being one of the necessary things for you
9 to be taken seriously by the financiers, right, when
10 you're assembling your bank group or putting together
11 a bond deal, whatever it is.

12 The - it's - otherwise, who are you? Why
13 are you talking to us? What makes you think you can
14 do this? If NRC isn't willing to take you seriously,
15 why should we?

16 MR. NIEH: Ken, If I can, I had a couple
17 questions. Well, I know Anneliese had one more but
18 since we're on the subject I did want to explore this
19 again.

20 This is Ho Nieh from NRR. Ken, can you
21 give a couple examples that are perhaps non-nuclear
22 with respect to large-scale industrial or other
23 projects that the regulatory licensing or permitted
24 was a key factor in the success or failure of the
25 project finance?

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1 MR. HANSEN: Oh, absolutely. I mean, I
2 think in most of the planet, not necessarily in the
3 United States because we have a little looser approach
4 to letting folks go off and develop power projects,
5 but most of the planet the very first step is a
6 decision by a government to issue someone a concession
7 agreement or an implementation agreement - basically,
8 a license to build and operate a project.

9 And that often comes through a competitive
10 process. It may be a negotiated process.

11 But one way or another, the thing that
12 gets the whole thing going, I suppose. It really gets
13 the whole thing going in some developers, you know,
14 gleam in their eye that hey, there's an opportunity in
15 India or Malaysia or Indonesia. Let's go - let's go
16 get involved in that process.

17 But the first step suggests they have
18 something as the government basically issues to them
19 the concession and then you now have something that
20 tells you the parameters of what you are - will be
21 obligated to do or you have the right to do and then
22 you go put together your team and your - and your
23 lender group. I mean, I can - I can give you
24 examples.

25 MR. NIEH: Maybe something that's

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1 domestic, I would, say where there isn't that
2 circumstance of a government concession where there's
3 some project that needs to be - a large-scale project
4 that would need to be funded but requires some -
5 either municipal or a federal permitting to move
6 forward.

7 I guess what I heard in the presentation
8 and Ellen, this was in your letter as well in the
9 November letter where it was suggested that, you know,
10 sponsors - financial sponsors or lenders insist on
11 this license prior to giving a commitment for funding.

12 So, again, and I just would like to know
13 if there's maybe a non-nuclear example that I could
14 kind of hear about where the permit was actually a key
15 factor in influencing project management.

16 MR. HANSEN: Sure. I mean, one example
17 might be everything which you just mentioned - DOE
18 loan guarantee program, everything which they're
19 funding is required to go through the NEPA process,
20 all right - National Environment Protection Act - and
21 the NEPA clearance is a requirement before they can
22 close.

23 MR. MAYFIELD: Water projects, for
24 example?

25 MR. HANSEN: I'm sorry?

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1 MR. MAYFIELD: Water projects?

2 MS. SIMMONS: Dam or -

3 MR. HANSEN: Well, yes, obviously. They
4 all had NEPA but they're - I mean, most of my
5 experience is international so I'm - I mostly heard
6 about kind of the domestic challenges.

7 I think one of the threshold requirements
8 often has been state and environmental clearances to
9 use at a particular site in a particular way.

10 If you don't have that, again, you're not
11 going to be taken seriously and that will - one of the
12 threshold clearances that people are lining up.

13 MS. GINSBERG: I would also say
14 conceptually as a matter of history if you think about
15 sort of yesteryear in terms of licensing projects you
16 had long histories of plants being licensed.

17 Then you had to go through the operating
18 license adjudication and so there were a lot of
19 financial implications.

20 So the uncertainty has reached the
21 financial market. Whenever we go to talk to members
22 of the financial market the first thing they're
23 interested in is the certainty of the regulatory
24 process because the vagaries of the regulatory process
25 have been duly noted by the financial markets and have

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1 had big impact on exactly the kinds of projects that
2 we're talking about.

3 NINA's an empirical example of the exact
4 issue where having a license in hand is necessary.

5 MR. SIMMONS: This is Jeff Simmons from
6 Luminant. I think you wanted to know some examples.

7 Well, in Texas a developer, Panda Power
8 Funds, has actually just closed financing on three
9 projects - well, actually two and they're attempting
10 to close the second phase on the first project.

11 But their requirement to obtain and close
12 financing was to have the air permit in hand and it's
13 a combined cycle gas plant.

14 It was - it was to have an air permit in
15 hand to have their water contract lined up with their
16 - with their municipal water supplier and to have
17 their EPC contract lined up in advance and a number of
18 other significant contractual obligations lined up.

19 But as an empirical example, that's a -
20 something that's recent, that's closed, that you can
21 look at and it's very well published in financial
22 publications as to how that financing was
23 accomplished.

24 And it's very typical with the exception
25 of the - and all projects have different means of

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1 securing revenue certainty. But it's very typical of
2 many projects that have been proposed.

3 MR. HANSEN: I was trying to think of a
4 domestic project that might be going on now and I have
5 come up with one which was the Cape Wind project
6 proposed - Nantucket Sound.

7 Controversial for a decade but they're one
8 of the - though it's all but surrounded by
9 Massachusetts it's actually in federal waters and
10 getting a lease, getting clearance from the Department
11 of Interior to proceed with that project.

12 It's been a critical aspect of it being
13 taken seriously by its prospective lenders.

14 That's not - may not be public record
15 where those would be. But the fact that it was a
16 really big deal for that project when the Department
17 of Interior, after, I don't know, months, years,
18 whatever, of review approved the project going
19 forward. That is public record and it was obviously
20 important.

21 MR. J. MATTHEWS: A big - a big issue
22 here though is time to market, okay. If you have the
23 COL in hand and the market conditions change or you
24 have a change in law, you know, in our project we ran
25 numbers to demonstrate adequate revenues to cover

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1 operations and those numbers are positive, okay.
2 Satisfy NRC or NRC's requirements, in my view.

3 But they're not bankable. The profit
4 isn't - the profit isn't high enough for an equity
5 investor to come in right now, okay.

6 But if we have the COL in hand, if, you
7 know, some things were to happen - for example, Texas
8 legislation to incentivize capacity, there are
9 restraints on capacity in Texas - I mean, very
10 realistically the Texas legislation could step in and
11 say, we're going to create a revenue stream if you
12 bring new nuclear capacity or new capacity into the
13 market - something as simple as that could on a dime
14 make our project, you know, ready to go in - I mean,
15 it's not like if we have a COL in hand right now, if
16 we had a COL tomorrow, we wouldn't be turning ground
17 for, you know, or at least beginning license
18 construction certainly, pouring safety-related
19 concrete for, you know, a long time.

20 I mean, it's going to take a year or two.
21 But the point is is it's not going to take five years
22 or have the vagaries of a new technical review or
23 second technical review that has to take place.

24 If we get across the finish line and have
25 the COL in hand then you're in a position to bring the

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1 project to market much more quickly.

2 MR. NIEH: And I appreciate that and I
3 found the presentations very good. They helped
4 illuminate in more detail the proposal.

5 So just a follow-on question. I did have
6 a thought on this line. It would help me understand
7 just the issue more broadly.

8 So you've got this project that you - this
9 project financed that you're trying to pursue here and
10 one uncertainty is the regulatory licensing aspect of
11 it and, again, having that in hand certainly
12 eliminates that risk or uncertainty. Then you could
13 present to a lender.

14 Can you give me a sense of the - kind of
15 the relative uncertainty or risk of that COL versus
16 some other risks or uncertainty in the project?

17 Because, obviously, they're going to be
18 evaluating the future revenue streams of, you know,
19 the purchase power agreements and things like that.

20 But where does the licensing process fit
21 relative to other risks in the project that a lender
22 would consider?

23 MR. J. MATTHEWS: It's the only thing
24 we're doing right now.

25 MR. NIEH: That's the only risk or -

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1 MR. J. MATTHEWS: I mean, that's it.
2 That's the only - that's the only thing. I'm saying
3 right now, NINA, the only thing we're pursuing is a
4 COL.

5 MR. NIEH: Right.

6 MR. J. MATTHEWS: Okay. That's the only
7 thing we're spending money on right now. Okay. When
8 we have the COL we can do something else.

9 MR. NIEH: But isn't it - if I understood
10 correctly with the project finance you're looking at,
11 you know, the paying off your - any debts through your
12 funds by projected future revenues.

13 I mean, there's some risks associated with
14 that. So I think as a lender I would want to evaluate
15 your business model. It's not only the COL aspect but
16 basically your business model.

17 So I'm just trying to get kind of a
18 relative comparison of how the COL stacks up against
19 other risks in the project finance.

20 MR. HANSEN: These are the folks with a
21 background in industry but I have - from what I've
22 heard I've got to imagine it is a threshold.

23 That's the thing that without which it's
24 hard for you to be taken so seriously as a project.

25 But the same thing with the first step in

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1 the development phase is assembling those elements of
2 the project that really are necessary in order to be
3 taken seriously by the next stage of the process,
4 which is approaching other equity, frankly, as well as
5 debt busters - lenders and a different environment is
6 just a different thing.

7 MS. SIMMONS: Would it be your position
8 that the CMO is more important than a PPA?

9 MR. J. MATTHEWS: I can't even get a PPA
10 or talk to somebody about a PPA at this point.

11 MR. HANSEN: I mean, at the end before you
12 - when you reach financial close there are a lot of
13 things that are important and at the end of the day
14 there may be some little legal opinion that - who knew
15 was going to be necessary and because either you can't
16 get it - I've never seen that happen but that it takes
17 time to get, the whole thing grinds to a halt for some
18 period of time.

19 So it's all necessary. It's a complex
20 array of stuff that you pull together. It's why they
21 pay outrageous fees to make these things happen.

22 Having said that, your sense is right but
23 what's the order and how do these things line up and
24 I think, you know, you might line up early things
25 which are just easy. Why not? As long as we've got

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1 time we'll do that.

2 But in terms of the really - the threshold
3 things that's, frankly, something that's going to be
4 project by project by project.

5 You know, if there is a state
6 environmental issue that was - impaired or impeded
7 other efforts then, well, everybody learned that
8 lesson - you better take care of that first.

9 If it is a power - if your business plan
10 is that before you contract a project and you've got
11 only one group to talk to and they're - they have a
12 limited attention span - they might be talking to
13 someone else - then okay, that's what you're going to
14 have to have.

15 And in the - in the conventional power
16 world and also the renewable power world, a power
17 purchase agreement is very often the very first step.
18 That's the interesting thing. But it's case by case.

19 MR. MAYFIELD: Can I jump in and go to
20 Mark and then I want to go back to Anneliese before a
21 really important event gets her pulled away.

22 MR. MCBURNETT: Just - yes, is the COL
23 important - I guess we've answered our own question.
24 I'm not pointing any fingers here. I'm going to say
25 our and it's ours - everybody in this room. If we

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1 look at our track record on issuing COLs in this
2 industry. We kicked off the renaissance of 2007, the
3 first submittals. We're in 2013.

4 Two have been issued and what's the
5 schedule on the rest of them. There's lots of reasons
6 for that so I'm not pointing at anybody here.

7 MR. MAYFIELD: I was going to say I've got
8 my own view on that.

9 MR. MCBURNETT: But if we sit back and
10 look at it the track record for issuing COLs from the
11 Wall Street perspective it tells that story. It says
12 the COL is a high-risk evolution.

13 Why should I - why would I as an investor
14 want to bank on getting a COL? You know, we're in
15 this little closed cluster in this industry that
16 everybody tries to understand that the ins and outs of
17 what all - what all is transpiring. But, you know,
18 it's - why would a financial guy trust us.

19 MR. MAYFIELD: Let's go back to Anneliese,
20 if we could please. I don't mean to cut anybody off
21 but I don't want to lose her opportunity to ask
22 questions.

23 MS. SIMMONS: I just really have two more
24 questions. The Commission actually issued guidance on
25 this in 2001 and, John, you were in a meeting just

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1 like this in 2001.

2 I don't think that's the same suit. I
3 hope not. But it was actually transcribed.

4 And the Commission indicated - stated
5 specifically in the SRM to maintain financial
6 qualifications for private merchant plants.

7 So what I heard you guys say - I have to
8 make sure I get this right - is that you agree with
9 that, that the merchant plants will be meeting the
10 requirements and I'm going to try to quote you, Dave -

11 I might get it wrong - that the finding - okay.

12 So the way that the staff used the
13 requirements is that we need to make a finding and
14 then it'll be verified by license conditions. I
15 always believed that. We always believed that.

16 We always presumed that you would get a
17 conditional funding agreement. Always - they're
18 always conditional early on and then we would be able
19 to verify the details prior to construction.

20 But you said that we will make a present
21 finding based on the process, okay. Now, for
22 utilities, okay, we make a finding based on legal
23 documentation that they have the ability to have rate
24 recovery, okay. So there's paper that we can verify.

25 Am I - am I understanding you right is

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1 that we would make the finding based on the written -
2 the documentation would be the written license
3 conditions which may be site specific but it would be
4 based on the process because we would not have
5 identified sources of funds. Is that right?

6 MR. J. MATTHEWS: Your finding is that if
7 the license condition is satisfied the regulation will
8 be satisfied, okay, and the regulatory requirement
9 says that you have to demonstrate reasonable assurance
10 of obtaining funds and identify the source of funds.

11 If you satisfy this license condition you
12 will be able to - you will look at the documentation
13 and all the sources of funds will be identified and
14 there will be more than reasonable assurance of
15 obtaining funds. It will be a fully funded project.

16 MS. SIMMONS: So you're saying that that
17 is the way we should interpret the current
18 requirements?

19 MR. J. MATTHEWS: Yes.

20 MS. SIMMONS: Okay.

21 MR. REPKA: The commitment in the
22 application is -

23 MS. SIMMONS: Meets the standards.

24 MR. REPKA: - is that - correct.

25 MS. SIMMONS: Okay.

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1 MR. REPKA: That with the license, can
2 back up by the license condition.

3 MS. SIMMONS: Now, we have never licensed
4 a merchant operator in this country - a power plant.

5 MR. REPKA: Actually, you've licensed
6 about 40 - more than 40 units to operate on a
7 merchant's basis. I mean, nearly -

8 MS. SIMMONS: Due to -

9 MR. REPKA: Due to license transfers, yes.

10 MS. SIMMONS: Okay. Due to license
11 transfers. Okay. And we do have experience enough.
12 I mean, this is a new thing, okay.

13 So my question to you is one of the
14 questions that came - that we posed to you was
15 wouldn't this be a better process. If we are going to
16 - because from the staff's perspective which may be
17 wrong we feel that that is a different process than
18 what we envisioned.

19 Wouldn't this be better to go out for
20 notice and comment and try to get a better product if
21 we are proposing something to the Commission that we
22 believe is a change from their SRO?

23 MS. GINSBERG: I don't think that question
24 was posed, first of all. But second of all - second
25 of all, I think we've been very transparent in what

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1 the issue is.

2 We've had now two meetings. The public
3 has been involved in this. Anybody who wants to file
4 comments is more than willing to do that.

5 You're going to take this set of options
6 as I understand it, Ho, to the Commission and allow
7 them to do as they see fit. The Commission could well
8 choose to do that.

9 This is not a rule making. This is simply
10 a set what - at least what we've asked for is
11 Commission guidance to allow the staff to feel more
12 comfortable taking whatever steps the Commission
13 directs.

14 MR. NIEH: And on that, and I think we
15 would consider that aspect internally as we mull the
16 options as far as balancing the needs of our issues
17 with respect to what we want to achieve in the -

18 MS. GINSBERG: Sure.

19 MR. MAYFIELD: The Commission has never
20 been bashful when they don't feel like they have -

21 MS. GINSBERG: Sufficient stakeholder
22 input.

23 MR. MAYFIELD: - adequate information
24 input. They've never been bashful, going back 25
25 years of experience with. They've never been bashful

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1 about telling the staff to go get additional comment.

2 So while I appreciate the notion that
3 well, let's make sure that all stakeholders have an
4 opportunity to weigh in on this, there's a process
5 that we'll go through and I do appreciate Anneliese's
6 concern and we'll figure it out and I'm sure the
7 Commission will help us as we need help.

8 MR. TURTIIL: Can I ask a question? Rich
9 Turtill of NRR. In terms of I've been getting a good
10 sense of lining up, I guess, sponsors, et cetera, for
11 construction, what do you all envision? What is
12 envisioned in terms of providing to the regulator,
13 NRC, I guess forward, years out in terms of operation?

14 Of course, with the utility you've got
15 potential - you know, you've got rate agreements,
16 PPAs, et cetera.

17 Is there - is there - I'm just trying to
18 understand both our views and your views on the sense
19 of how far out are we. What kind of evidence or how
20 far out might you provide a sense that we've got two
21 years covered, one year covered, three years covered,
22 that would help me understand. Does that clear -

23 MR. J. MATTHEWS: No. I'm not sure what
24 you're - are you talking about the operations mode?

25 MR. TURTIIL: In the operations mode.

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1 MR. J. MATTHEWS: Well, the regulations
2 require projections over five years and I think for
3 NINA we submitted 10 or 15 years in projections.

4 MS. GINSBERG: Ten.

5 MR. J. MATTHEWS: Ten? Ten years in
6 projections. But, you know that's - I mean, the
7 revenue test and the test that's been employed for the
8 operating fleet, I mean, is pretty - I mean, that's -
9 the agency has a lot of experience doing that.

10 It's approved a lot of transfers to
11 merchant generators on the basis of that and there has
12 not - you know, I'm not aware of a situation that this
13 agency has encountered where a merchant generator has
14 become a problem from a financial qualifications
15 perspective.

16 The most recent bankruptcy we've had was
17 a cost of service utility - Pacific Gas & Electric.
18 So, I mean, the experience has been quite good. So I
19 -

20 MR. REPKA: This is Dave Repka. Let me
21 just add the additional perspective. You have to look
22 at this holistically and I think the Commission has
23 said this in the context of even its exempting
24 electric utilities in terms of financial qualification
25 operating license reviews is a recognition that the

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1 NRC's regulatory program is looking at day-to-day
2 operations and if there's under funding in the
3 operational space the expectation is that it'll become
4 manifest through the inspection program.

5 And I think that's really when you come
6 down to a safety - an ongoing safety that's really
7 still the key.

8 MR. J. MATTHEWS: That's the key point and
9 if there's a safety problem the unit will be shut
10 down. In the case of the Texas plants, the
11 decommissioning funding is backed up by the rate
12 payers in Texas.

13 So, you know, there are, you know, lots of
14 things that protect the public health and safety here
15 from that perspective.

16 MR. MAYFIELD: Okay. I want to come back
17 to Anneliese and make sure we - just in case you get
18 a phone call.

19 MS. SIMMONS: Thanks.

20 MR. MAYFIELD: You're good?

21 MS. SIMMONS: Yes, thank you.

22 MS. KIRKWOOD: I want to follow up on Ho's
23 questions about other industries where this comes into
24 play.

25 Are you aware of any other examples where

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1 the regulator has a financial qualifications
2 requirement and the project finance needs a permit to
3 close?

4 MR. HANSEN: You know, it's often the case
5 that the regulator, the folks who are issuing the
6 license, that it may be different than the regulators,
7 right. Maybe the -

8 MS. KIRKWOOD: License. Okay.

9 MR. HANSEN: But the - it's often as a
10 precondition to be on a short list of bidders or
11 something. There may well be financial capacity
12 requirements.

13 So the answer is if you were to look at
14 situations with folks bidding, again, a lot of - my
15 experience there is international.

16 A lot of it has occurred domestically in
17 state-supported roads projects but you may well have
18 a financial capacity requirement for the sponsors.

19 But at the end of the day, they're looking
20 - all of these are expecting a project finance
21 approach. That's why, because I was - from a plain
22 language perspective, having a reasonable assurance
23 that the project financing as a strategy gives a
24 reasonable assurance that the stuff will - that the
25 funding will be there when it's needed there's no

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1 guarantee, and there are projects that have been
2 assembled, gone out to bid, got started and never
3 closed.

4 But was there a reasonable assurance, a
5 reasonable expectation? It may have a lowered
6 standard but it would - of course, none of the
7 governments, none of the sponsors. They'd be wasting
8 their time if they didn't share that sense, and given
9 the track record globally on these projects getting
10 done I think, you know, depending what you mean by
11 reasonable assurance I think people said yes, or we
12 wouldn't - we wouldn't do them. We wouldn't bid.

13 We wouldn't - we wouldn't take that
14 approach in trying to attract developers to our
15 projects. So I think the answer would be you would
16 find in the bidding process often some financial
17 threshold.

18 But it wouldn't be tied to the funding of
19 the project itself. It's basically to avoid Moms and
20 Pops from clogging up the bidding process.

21 MS. KIRKWOOD: So more of a barrier to
22 entry -

23 MR. HANSEN: Yes.

24 MS. KIRKWOOD: - into get into the
25 bidding.

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1 MR. HANSEN: I think that's right. I
2 think that's right.

3 MS. KIRKWOOD: Rather than a -

4 MR. HANSEN: And you'll that with power
5 projects, roads projects, airport projects across the
6 board.

7 MS. KIRKWOOD: Our regulations are
8 premised on this idea that there is a connection
9 between having adequate funds and ensuring safety. Do
10 you think that that is a valid theory?

11 MR. HANSEN: Adequate funds and what?

12 MS. KIRKWOOD: And ensuring safety. That
13 if you're -

14 MR. HANSEN: Oh, ensuring safety.

15 MS. KIRKWOOD: - if you're running short on
16 money you're more likely to take safety shortcuts. So
17 that we're looking to make sure you have enough money
18 not to take safety shortcuts.

19 MR. HANSEN: Aside from the general
20 obligation to comply with regulations and law, which
21 everybody has, understanding that these kinds of
22 problems could run into the failure of the project,
23 most of the lenders are going to rely on the
24 expectation that safety issues are taken very
25 seriously by the equity investors because but for that

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1 they'd lose their shirts.

2 For that - but for that they'd lose 100
3 percent of their equity investment, which is pretty
4 substantial.

5 So, again, looking to the waterfall use of
6 funds you can be pretty sure that addressing safety
7 issues, perhaps a pop-up along the way, is going to be
8 extremely high in that waterfall it would be shocking
9 to imagine that the lenders would take a position that
10 well, let's worry about that after you've made your
11 next quarterly interest payment.

12 So it sounds like the kind of thing that
13 might well be negotiated kind of case by case but will
14 resources that are appropriate to ensure safety be
15 lined up? I can't imagine they wouldn't be. It
16 wouldn't be financeable unless it were.

17 MS. GINSBERG: But there's also - they've
18 used the word holistic and I think it's critically
19 important to understand that financial qualifications
20 is not the only means by which you establish safety.

21 There are many, many, many other processes
22 and procedures and approaches, evaluations, et cetera,
23 that take place. You've got the ROP process.

24 You've got any number of other processes
25 that are at least a supplement if not, in my view,

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1 perhaps even more important than looking at financial
2 qualifications kind of, you know, in isolation.

3 And I think it's very dangerous for us to
4 look at financial qualification as the single most
5 important feature of public health and safety.

6 What the NRC does is it regulates any
7 number of aspects, financial qualifications being an
8 important one but not the only one.

9 MR. MAYFIELD: Based on your international
10 experience - there was a conference in the U.K. some
11 months ago looking internationally at how nuclear
12 projects are financed in some of these new interned
13 countries.

14 Is there anything from the international
15 experience that bears on this that we could use just
16 as insight?

17 MR. HANSEN: Interesting question. I
18 mean, it's a new frontier, right, and I'm not a part
19 of it.

20 So maybe other folks in the room might
21 have been. One thing that is clear is, you know,
22 there is no history of using project financing to
23 finance the construction of nuclear plants.

24 It's what everybody is looking at right
25 now internationally. That's what they're focused on

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1 in the Middle East.

2 It's what the - Korean Ex-Im Bank was
3 mentioned before. They hope to be a leading lender in
4 that sector and they are presuming that these will be
5 done on a limited recourse basis.

6 So I think it's a good instinct. There
7 may well be. Maybe it's early for the lessons to be
8 learned but there may be guidance out there.

9 I'm fairly confident that you'll find the
10 guidance encouraging in the direction of taking
11 project finance seriously as a way of funding this.

12 MR. J. MATTHEWS: The Emirates Nuclear
13 Energy Corporation project is pursuing a project
14 finance.

15 U.S. Export-Import Bank has committed, I
16 think, over a billion dollars of lending into that
17 project and Korea Export-Import Bank has committed
18 over \$20 billion into building a four-unit - expanding
19 that project from two units just built by the
20 government to four units built on a project finance
21 basis.

22 MR. MAYFIELD: I wonder - maybe
23 collectively it might be work poking at Ed McGinnis
24 from DOE because he looks at principal in that
25 conference and see if there are any insights that - so

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1 it's not something you should do versus us but
2 collectively.

3 So they need to find a way to have that,
4 just to see if there's anything that could be of value
5 in terms of what's going on in the international
6 community. I wasn't aware the UAE approach.

7 MR. NIEH: Just a couple comments on this
8 topic and the questions. So, clearly, we have a lot
9 of different views on safety and I would just take
10 this dialogue here and I wouldn't read into any staff
11 position at this point.

12 Again, we're trying to just understand
13 things and we are a safety regulatory agency and the
14 financial area, I'll say, isn't a core competency. In
15 my experience here at the NRC we're a lot of times
16 used to dealing with pumps, valves and reactor cores
17 and things like that.

18 But, again, we want to tie that back to
19 safety at some point and, again, this will help us.
20 Having the discussion here, I think, will help us
21 frame the issue for the Commission. So I understand
22 we have different views here.

23 But I wouldn't say there's, you know, a
24 staff position at this point in time. Obviously, we
25 have different ways of looking at this.

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1 But I did want to ask - I did look through
2 the PFS Commission decisions last night and the one
3 thing I noted besides the difference between Part 72
4 and the language in Part 50 is that the Commission in
5 its decision acknowledged the different levels of risk
6 associated with the fuel storage facility and that of
7 the reactor.

8 So I know you use PFS as an example of a
9 predictive licensing condition to meet the financial
10 qualification requirements.

11 Can you give us a sense of the
12 Commission's view of the risk as far as how you
13 interpreted that between a fuel facility and the fuel
14 storage facility and the reactor facility?

15 MR. REPKA: This is Dave Repka. I'll just
16 start by saying that I think that the acknowledgment
17 of the risk is sort of acknowledging that there is a
18 difference between Part 50 and 72 and I'm not sure I'd
19 read much more into it than that in terms of the legal
20 issue of whether the - whether the condition is a
21 viable legal approach.

22 I don't think that changes the outcome.
23 It should be equally viable in both contexts. Both
24 Part 72 and Part 50 have language in the test that
25 talks about predictively obtaining funds in the

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1 future.

2 And I think in terms of the heightened
3 risk, you know, I think it really just goes to the
4 rest of the regulatory program is ultimately going to
5 be very different as well to address that risk.

6 MR. J. MATTHEWS: Also, I think it
7 suggests that we ought to have a more robust license
8 condition for a reactor, okay, than just I'm going to
9 have some contracts to generate revenue.

10 So if I was giving you - if we were
11 proposing the same license condition as PFS I'd say
12 well, when we can - when we can show you we've signed
13 up, you know, PPAs for half the plant or something
14 like that then I satisfy the condition and then I can
15 move forward.

16 We've proposed a much more robust license
17 condition than that, not only that - I'm not only
18 going to have to have the PPAs, I'm going to have to
19 have the banks lending the money.

20 I'm going to have to have everything else
21 put in place in order to satisfy this much more robust
22 license condition.

23 The other perspective I wanted to offer
24 though is, I mean, I think we all intuitively see a
25 correlation between safety and having adequate

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1 financial capacity.

2 But this agency has done studies in the
3 past. I know Chairman Selin was worried about this
4 back in the 1990s and he posited, you know, is there
5 a correlation between companies' capital budgets for
6 nuclear power plants and their safety performance.

7 And the study that came back as far as I
8 remember it was there were plants that spent a lot of
9 money that performed like crap and there were plants
10 that spent a lot less money that were top performers.

11 We really couldn't find a correlation
12 between the amount of resources and the safety
13 performance. There are lots of other factors that are
14 far more important than the dollars and cents.

15 MR. NIEH: And I think on that comment, I
16 do share the view that you mentioned, Ellen, that, you
17 know, FQ was not the single factor that -

18 MS. GINSBERG: It's one of several.

19 MR. NIEH: It's one of many. But, again,
20 it's something that I think we ought to look at it and
21 tie it back to safety. Thanks.

22 MR. HANSEN: And, you know, maybe just to
23 toss a project finance perspective on that, it's
24 confident if this were a group of the lenders around
25 having a kick-off meeting on the project, with all

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1 respect to the source of the cash flows which will be
2 critical. They'll be concerned of how the power's
3 going to be sold, they're going to be concerned about
4 the construction costs.

5 But I - in everybody's mind, spoken and
6 unspoken, it's going to be oh, my God, this is a
7 nuclear power plant - let's think safety.

8 You can be sure that the preoccupation of
9 the lenders with safety will be maybe not statutorily
10 the way you're preoccupied but it's going to be their
11 absolute priority. It would be on the table.

12 MR. J. MATTHEWS: It's the way they it's
13 the way they mitigate the risk. I mean, I gave a
14 presentation to a private equity company that was
15 looking to buy nuclear. It was buy a fleet of
16 generators that included very significant nuclear and
17 this was, you know, 10, 15 years ago and, I mean, that
18 was - their primary concern was oh, my God, nuclear -
19 we're going to own a nuclear power plant.

20 This, you know, we're a financial
21 institution. We don't want to do that.

22 I think the most persuasive thing that
23 kept them in the game looking at the project was, you
24 know, looking at the safety indicators and the
25 performance of the industry.

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1 I mean, I just pulled, you know,
2 literally, performance indicators and showed how the
3 performance in the industry had changed between the
4 early 1980s and the early 2000s.

5 And, you know, they were very concerned
6 about nuclear safety and seeing that the industry was
7 performing well was one of the things that helped
8 them, you know, think, yes, we could come in and
9 invest in nuclear.

10 MR. SPENCER: I had a question about the
11 different factual situations - the different
12 applicants phase.

13 In an STP situation one of the
14 difficulties is that you had project sponsors and some
15 of them would make the decision not to continue
16 financing. Whereas in other situations you - and the
17 difficulty for that is STP is saying well, we will go
18 out and find investors and NRC doesn't know who they
19 are right now and so we can't really evaluate their
20 financial strength.

21 But I'm wondering in other situations with
22 other applicants whether the project sponsors you know
23 who they are and you can actually - even if they
24 haven't made a firm commitment to construct you
25 actually know who the players are and can do financial

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1 review of those sponsors now versus later. Or is it
2 a situation where most of those project sponsors in
3 terms of equity contributors simply aren't known?

4 That's just a question generally for the
5 industry representatives.

6 MR. CAVERLY: Okay. I'll add a little
7 bit. Mike Caverly from PPL. I think generally across
8 the board you can't say with certainty on that now.
9 That will be one of the areas that will be confirmed
10 at a financial closing.

11 Right now, PPL is the only equity sponsor
12 for the development of the project. That's likely to
13 change before we reach a financial closing.

14 Once we reach a financial closing the NRC
15 viability, the financial viability, of the additional
16 equity players will be part of the financial closing
17 that will be confirmed on that day or at that time.

18 MR. SPENCER: Okay. Is that the case with
19 the other applications too?

20 MR. J. MATTHEWS: In order to put the deal
21 together in the COL at this stage in the industry I
22 mean, I think, you know, South Texas project, with the
23 amount of money that had already been spent on the
24 project, with the schedule that we had for getting a
25 COL in early 2012 and, you know, if we'd have gone and

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1 gotten the conditional loan guarantee from DOE in
2 March of 2011 instead of Fukushima happening, you
3 know, we would have been in a much better position at
4 least to have, you know, the DOE term sheet and all
5 that.

6 But we still would have been pulling
7 together further project participants and going
8 through this evolution of changing sponsors and some
9 of which may have even happened after we had the COL.

10 In fact, we were planning for that two
11 years ago that, you know, what's the timing we may -
12 maybe we will bring in some sponsors after we have the
13 COL and we'll just go through the 5080 amendment
14 process and the NRC will look at those then rather
15 than have them come in at the eleventh hour and then
16 somehow disrupt the schedule for the issuance of the
17 COL.

18 So, I mean, you're going to expect that.
19 In today's environment, though, all the license
20 applications that you're looking at that are not from
21 cost of service utilities I mean, what are we doing?

22 Are we wasting our time here reviewing
23 these applications?

24 I mean, why do we have - why are we
25 spending all this money and all this effort and all of

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1 the agency's resources if there's no answer to this
2 question?

3 Because if the answer to the question is
4 we are not going to give you a license until you have
5 identified all of your project sponsors and all of
6 your money, I mean, we just ought to quit today.

7 MR. MAYFIELD: Well, let's not get too
8 carried away.

9 MR. J. MATTHEWS: Look, I said that - I
10 said that in the summer of 2011. I said that in the
11 summer of 2011. If we can't use a license condition
12 our project is dead.

13 MR. MAYFIELD: So I understand the
14 sentiment but that's why we are putting together a
15 paper for the Commission.

16 MR. NIEH: But I think the letter clearly
17 tees up the issue because the staffs intend to kind of
18 present the facts to the Commission and the staff's
19 views, of course.

20 But I'm just curious - in a license
21 transfer example is the proposal in the NEI letter and
22 also I looked - I did compare the NINA letter and the
23 NEI condition.

24 They're slightly different but I just
25 wonder in those license condition - let's use the one

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1 in the NEI letter of November 2012 - is what's
2 proposed as a means to meet the requirements is that
3 similar - is that on par with what we've done in the
4 5080 license transfers for merchant plants or is it a
5 - I guess maybe I'm -

6 MR. J. MATTHEWS: It's different, I would
7 say. I mean, and the license condition is really more
8 geared to the construction and demonstrating the
9 adequacy of funds for construction. So it's kind of
10 hard to make that comparison.

11 You know, I think that - you know, my view
12 is that most of these projects would be able to meet
13 the 5080 test in one fashion or another because under
14 the - under the test that we've used in license
15 transfers, you know, you show that you have adequate
16 revenues and if your revenues - if your performance
17 don't show that, you know, your revenues are likely to
18 exceed your cost then you use other means like
19 parental support arrangements or things like that and
20 a licensee can say well, before we begin operations
21 we'll put in place a parental support arrangement.

22 I mean, because - and in some ways it's
23 easy to say because I know the banks are going to make
24 me have, you know, my debt reserve, my working capital
25 line of credit.

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1 I mean, I got all these things I have to
2 have to satisfy the project finance anyway.

3 So having financial support to show that
4 I'm going to be able to cover my costs to operate -
5 during operations isn't the - really the X that I'm
6 most concerned with myself.

7 MR. REPKA: I think - you know, I haven't
8 looked at license transfer conditions in a while but
9 I think they're much simpler.

10 They relate to notification of closing and
11 usually there may be something in there about the
12 decommission fund being transferred to the new entity
13 and if there's anything there.

14 But they don't include anything related to
15 operating revenues.

16 MR. J. MATTHEWS: Well, usually there's a
17 condition. If you've offered a parental support
18 arrangement, you know, so you have a conditional
19 commitment from a parent company to provide resources
20 of up to \$200 million if needed for operations, that
21 will be a condition in the approval.

22 MR. NIEH: One follow-up question.
23 Several times in the presentation and also in the
24 letter you mentioned that the license condition is
25 more robust than perhaps what we would do up front

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1 given the COL and making the financial qualification
2 determination at the time of issuance rather than via
3 license condition.

4 Can you explain in simple terms for me why
5 it's more robust - why the license condition is more
6 robust?

7 MS. GINSBERG: Sure. I'll start and I'll
8 ask my colleagues to jump in.

9 MR. NIEH: Yes. Thank you.

10 MS. GINSBERG: But I think Ken has done
11 that. I think what we're explaining here is that by
12 the time you get to financial close of a project
13 finance the amount of analyses, the extensive reviews,
14 the financial modeling, all has been extraordinarily
15 in-depth, comprehensive, et cetera, et cetera, et
16 cetera.

17 And so what you arrive at is a series of
18 financial institutions that are willing to take part,
19 that are going to put money on the barrel head, right,
20 based on their analysis which is a very in-depth
21 analysis of the financial viability. I'll now turn to
22 Ken. But that was the purpose in bringing him in.

23 MR. HANSEN: Okay. Well, yes. Other
24 folks here will have to tell me the level of
25 obligation that someone with a COL, say, a utility,

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1 has.

2 They have - may have by my understanding
3 the right to pass things on to the rate base but
4 there's still a process. It's conceivable that for
5 whatever reason there could be rebellion and it just
6 wouldn't happen.

7 At financial close you have legally
8 binding enforceable obligations and, sure, maybe a
9 bunch of banks will breach those obligations.

10 Maybe a bunch of investment grade
11 companies will breach their obligations to provide the
12 equity that under their equity contributions agreement
13 they're obligated to do.

14 But, frankly, even if they do they're
15 liable for damages and that's just not how it works.

16 We pretty much live in a country -
17 increasingly a world but at least a country where
18 these contracts are taken very seriously and I think
19 having an obligation to do something is a step up
20 versus just having an opportunity to do it.

21 MR. NIEH: So if I could paraphrase that
22 back, what I heard was that it's more robust because
23 the amount of analysis, vetting and scrutiny, if you
24 will, of the financial instruments that would fund the
25 project will have, you know, in this case with the

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1 license condition would be at a level that's much
2 higher than if we were just doing a straight up COL.

3 MR. J. MATTHEWS: Anything you've ever
4 seen. Anything you've ever seen before.

5 MR. HANSEN: I would say - I mean, you
6 take comfort from all of that but the thing that
7 really makes it more robust is now you have capable
8 players who are obligated to fund.

9 MS. GINSBERG: And you've got - and you've
10 got essentially what John has created - a way to
11 verify that.

12 So it's objective. Either you do or you
13 don't have whatever the level of funding is. Check
14 that box. It's right here. It's in front of you.
15 You've got it and so there's no guess work there.

16 MR. REPKA: But in a simple minded way
17 it's the process that's more robust. And take John's
18 PFS example whereas have a number of contracts. Okay.
19 There's players involved in those contracts but it's -
20 here we're talking about a project finance process
21 that includes a large number of stakeholders, all who
22 have motivations to ensure the viability of the
23 project, to ensure really the safety and integrity of
24 the project.

25 And so it's that - it's robust, the

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1 license condition itself, which is simply to confirm
2 that that process has been completed and has worked -

3 MS. GINSERG: And yields the result.

4 MR. REPKA: - and that's - so the words in
5 the license condition are not necessarily robust. By
6 design they're simple. They're confirmatory. But
7 it's the process that's more robust.

8 MR. J. MATTHEWS: And what NINA has
9 proposed is the project - that the project finance
10 would close and that the project finance would be
11 committed to include at least 50 percent funding by
12 United States Federal Finance Bank or another
13 governmental entity.

14 So we're basically saying we're not just
15 going to - you know, I mean, there's an example where
16 we're proposing - we won't just close any project
17 finance.

18 I think any project finance is more than
19 good enough but, I mean, we're saying a project
20 finance that the United States government has signed
21 off on, that the United States government itself is
22 obligating billions of dollars to and if that is not
23 reasonable assurance I just - I'm confused as to what
24 the issue is.

25 MR. MAYFIELD: Okay. Can we come back to

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1 this end of the table?

2 MR. NIEH: I had a couple more but let's
3 spread it around.

4 MR. HANSEN: Mike has a question too.

5 MS. KIRKWOOD: I have - I thought I heard
6 you say in your presentation that NINA is - or I guess
7 I'll ask you.

8 Do you think that NINA should not be
9 considered to be a newly formed entity or other people
10 like it once they've been in the application process
11 for a certain amount of time?

12 MR. J. MATTHEWS: Yes.

13 MR. SPENCER: John, I was reading the
14 NUREG. 1577 outcome quotation that distinguishes
15 between newly formed entities and established entities
16 and it describes established entities as follows.

17 An established entity is a company that
18 has an established and proven financial, construction,
19 operational or decommissioning record of five years or
20 more for managing or owning a nuclear power plant or
21 has an established record of raising managing capital
22 similar to the one required to fund nuclear power
23 plants, construction capital additions and operating
24 and decommissioning expenses as appropriate or the
25 licensee stipulating a share of those operating

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1 expenses. So would you say NINA fits that definition?

2 MR. J. MATTHEWS: Put together a billion
3 dollars for the project and spent it. I actually
4 don't think it matters because I think we'll satisfy -
5 I think the license condition satisfies either way.
6 So I really don't think it matters.

7 MR. SPENCER: Okay. There was a - NEI's
8 letter to the Commission mentioned the definition of
9 construction in 50.2 and I noticed - I was thinking
10 probably - I'm sure that in this letter they cite
11 50.10 and those are two different definitions for two
12 different purposes.

13 And I just wanted to get a sense of which
14 definition of construction industry thinks is the
15 appropriate one to use in terms of, you know,
16 construction will not commence until, you know, these
17 conditions are satisfied.

18 MR. REPKA: I believe the reference would
19 be to NRC license construction, wherever that
20 definition resides. The idea is that preconstruction
21 activities would precede the NRC license construction,
22 that which requires a COL.

23 MR. SPENCER: That 50.10?

24 MR. REPKA: Presumably. I don't have that
25 in front of me.

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1 MS. GINSBERG: I think we cited 50.2.
2 We'll go back - we'll go back and look at it.

3 MR. SPENCER: Okay.

4 MS. GINSBERG: That's a fair question.

5 MR. MAYFIELD: Anything else down here?

6 MS. KIRKWOOD: I'll ask one other question
7 that's slightly away from the license condition.

8 But I guess I heard you say that there's
9 a lot of other mechanisms we have for ensuring safety
10 and I heard you say that the lenders have this
11 incentive to ensure safety regardless of what our
12 financial qualifications and requirements would be.

13 So thinking more broadly, do you think
14 that there is a purpose in having - in the NRC having
15 financial qualifications requirements, given that we
16 don't care about the viability of the project?

17 MS. GINSBERG: Are you asking me?

18 MS. KIRKWOOD: Or any of you.

19 MS. GINSBERG: Yes. Well, I'll start.
20 Yes. I mean, I think Tim whispered rather loudly that
21 Congress has decided - Congress has decided that at
22 least the NRC has the authority to look at these - to
23 look at these issues.

24 I think there are probably multiple views
25 about the relationship between financing - your

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1 financial viability and your operation. I think John
2 is right.

3 I think there - you could operate on a
4 shoestring and if you have the right culture, you have
5 the right approach to your processes, you probably
6 could be very efficient.

7 I think there are other entities that
8 probably spend a great deal and maybe their
9 performance isn't as - isn't as perfect.

10 But I think the key is that the NRC has
11 multiple ways of evaluating project safety, evaluating
12 nuclear safety, and that's the important part. It's
13 if financial qualifications are included in the
14 regulatory process as they currently are I'm not sure
15 I have an objection to that.

16 But I want to be sure that we don't over
17 emphasize them to the detriment of considering the
18 other processes that are in place. That's all I have.

19 MR. REPKA: I've got questions on the
20 license condition but I can let other people -

21 MR. MAYFIELD: Why don't we come back to
22 it? Ho, you had something?

23 MR. NIEH: I may have gotten this already
24 but in your letter, Ellen - it's on Page 3 here - it
25 says lenders - I'm going to paraphrase. Lenders

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1 participating in large infrastructure project finance
2 including USFFB and the Department of Energy will
3 insist upon issuance of a COL before financial
4 closing. Do we have that in writing anywhere or -

5 MS. SIMMONS: I think we have a term
6 sheet, don't we, John?

7 MR. J. MATTHEWS: That should be easily
8 confirmable with DOE. Actually, I think the term
9 sheet said the same there.

10 MR. NIEH: I just don't know what a term
11 sheet is.

12 MS. SIMMONS: So the term sheet is what we

13 -

14 MR. J. MATTHEWS: No, and just to be clear
15 we - NINA submitted the draft of the DOE term sheet
16 for a conditional loan guarantee that we had
17 negotiated as of February of 2011.

18 That's a proprietary document and the
19 details of the terms and conditions are proprietary to
20 NINA. But I think we're okay with disclosing this
21 fact.

22 (Laughter.)

23 MR. NIEH: Okay. I just wanted to follow
24 up on that -

25 MR. J. MATTHEWS: Yes.

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1 MR. NIEH: - or the insistence, if you
2 will.

3 MR. HANSEN: And then apropos to your
4 earlier question on the timing of these things -

5 MR. NIEH: Yes.

6 MR. HANSEN: - it's a condition - this
7 term sheet is attached to the conditional commitment
8 which hasn't been issued yet, as far as I know. So
9 it's early in the process as a requirement.

10 MR. J. MATTHEWS: But it's in order to get
11 to financial close - in order to get your money.

12 MR. NIEH: You got to have the money.

13 MR. J. MATTHEWS: You have to have it in
14 order to get your money.

15 MR. NIEH: Okay. One other - Dave, in
16 your discussion on the slides related to predictive
17 licensing you noted emergency preparedness as an
18 example of where - use that emergency plan that will
19 be tested periodically and that will provide
20 reasonable assurance technical safety is carried out.

21 So in this case I just wondered, you know,
22 here is the license condition. I don't - we don't -
23 we're not going to receive anything up front other
24 than the license condition, is that right, with this
25 proposal? Like, there's no plan or anything like

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1 that?

2 MR. REPKA: No. Other than what's in the
3 application which say here's what we know and it's
4 going to be a project financing transaction. So, yes,
5 you get what's in the COL.

6 MR. NIEH: Okay. And then -

7 MS. CUBBAGE: You mean to the project
8 cost?

9 MR. REPKA: Correct. And if you look at
10 our matrix of compliance that will show you what would
11 be included in the application.

12 MR. NIEH: Okay. Okay. And then the
13 other part was, again, emergency preparedness there's
14 periodic - the requirements for periodic exercise and
15 things like that.

16 Do you have any thoughts of any post-
17 licensing reviews beyond normal oversight, obviously.
18 You know, if there are problems they would manifest
19 themselves in operational or equipment issues and
20 things like that and we have inspection and
21 enforcement processes to address those things.

22 But there - in the area of financial
23 qualification do you all envision any other future
24 monitoring after issuance and licensing or -

25 MR. REPKA: Nothing beyond which the NRC

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1 would exercise their normal regulatory course,
2 whatever that might be, through inspection of programs
3 or whatever.

4 You know, if the NRC felt it necessary to
5 do some kind of monitoring it certainly could do that
6 or it would be within its authority to do that.

7 The point is though that there is - at
8 licensing there is a transition from the prelicensing
9 findings to the - to the inspection oversight
10 function. We're not proposing anything but it's
11 certainly within our -

12 MS. GINSBERG: That's correct. We have -

13 MR. NIEH: Okay. Thank you.

14 MR. DUSANIWSKYJ: I've just got one
15 question, generally. You know, I'm just a simple
16 economist.

17 MR. MAYFIELD: Could he identify himself?

18 MR. DUSANIWSKYJ: Oh, I'm sorry. My name
19 is Michael Dusaniwskyj with NRR and I'm just - you
20 know, with everything we've been talking about, and
21 you kind of alluded a little bit to it and I'm just
22 curious, the STP project as of now stands and I
23 recognize that Mr. Hansen pointed out because
24 everything you talked about was exactly what I did in
25 atomic projects way back before I came to this life.

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2

Does STP at this point have a viable plan with enough return on investment that thrift institutions are interested in this project or not?

3

4

Because you're always saying that the COL is of vital importance and my only question is does that preclude the fact or does it not matter that in STP's case do you have thrift institutions who believe that the return on investment is viable?

5

6

7

8

9

MR. J. MATTHEWS: We do not right now. If we had a COL, we might.

10

11

12

MR. DUSANIWSKYJ: Why would the COL preclude a return on investment?

13

14

15

16

MR. J. MATTHEWS: When we have the COL then we can - we can go to market and look creatively to find additional sponsors and lenders to lend in the project.

17

18

MR. DUSANIWSKYJ: Does that mean -

19

20

21

22

MR. J. MATTHEWS: But let me back up because in one sense I object to the premise of the question because you appear to be saying, well, if the answer to that is no then we shouldn't issue a license and my response to that is that's not NRC's job.

23

24

NRC's job is not to only issue licenses to people that absolutely are ready to build or plan to

25

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1 build.

2 I mean, the classic regime is the state
3 regulators get to decide, you know, what they're going
4 to spend money on to build plants. NRC licenses them
5 and handles the nuclear safety aspect of it, okay.

6 In a merchant world it's the developers
7 get to decide when they want to build and I think it's
8 perfectly reasonable for the agency to issue a COL to
9 somebody who says, I might want to build.

10 I want the license. I might want to
11 build. I'm not telling you today that I'm going to
12 build.

13 But I think if I get a license there's a
14 good chance I will, and that's what I've spent a
15 billion dollars for is the option value to build.

16 MR. T. MATTHEWS: The cost of pursuing a
17 COL is far more than just speculative interest and
18 possibly constructing.

19 MS. GINSBERG: But the fact is that your
20 question is one of do you or don't you need this COL
21 in order to go get finance.

22 MR. DUSANIWSKYJ: Yes.

23 MS. GINSBERG: And the answer from
24 everyone that we've talked to on Wall Street is no one
25 is willing to risk the company, to risk an enormous

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1 amount of money, on a process that they believe
2 rightly or wrongly is uncertain.

3 So what this COL does is it removes that
4 uncertainty which, in the past, has been a significant
5 issue.

6 If you look at PS&H, if you look at many
7 of the previous licensings where you had a fully
8 constructed plant and then you had to go through the
9 operating license process, the adjudicatory process,
10 those were fully constructed, very large carrying
11 costs that in some case cost the company everything
12 because of the "uncertainty" of the process - the
13 vagaries of the regulatory process.

14 So while we could all agree that that's
15 been resolved and that Part 52 is a much different
16 process, Wall Street and other investors want to see
17 that COL to demonstrate that fact.

18 And so it's a pretty simple
19 straightforward answer to your question about the
20 threshold nature of the COL.

21 MS. ROMA: Just to add to that point that
22 - this is Amy Roma from Hogan Lovells, I believe it
23 was either at last year's regulatory conference or at
24 last year's Platts conference there was a investor
25 that talked about regulatory risk and investment.

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1 Does anybody remember this? And jog my
2 recollection - it was in the February/March time frame
3 - who directly addressed regulatory risk and why
4 investors are not investing in nuclear power plant
5 projects because of the regulatory uncertainty of the
6 NRC.

7 And one of the things that he did address
8 was that upon issuance of the COL that regulatory risk
9 went away for the investor's purpose and investors
10 were more willing to come to the table.

11 So if I can find those slides I'll forward
12 them.

13 MR. MAYFIELD: I think that was Platts.

14 MS. ROMA: Okay. So it may have been at
15 the Platts conference but I think a lot of the people
16 in this room went to - went to that.

17 MR. DUSANIWSKYJ: Is the uncertainty
18 around the COL a parity issue or is it a question of
19 how long it takes to issue?

20 MS. GINSBERG: Both. Absolutely both.
21 And history would demonstrate that both are relevant
22 questions.

23 MR. DUSANIWSKYJ: Would you at least - let
24 me say this. Is it nonfinancial issues that usually
25 elongate the process?

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1 MS. GINSBERG: It doesn't much matter.

2 MR. DUSANIWSKYJ: Not to Wall Street.

3 MS. GINSBERG: What Wall Street says is
4 Wall Street hates uncertainty and I don't think it's
5 an overstatement to make it that bluntly.

6 I mean, Wall Street wants to know what's
7 going to happen at each step. When you look at the
8 elections Wall Street looks like a sawtooth because
9 they don't know what's going to happen with the next
10 administration.

11 It's really not that different here and
12 every time you go to a financial conference - Amy is
13 exactly right - one of the speakers routinely talks
14 about mitigating regulatory risk and perhaps the best
15 way to mitigate regulatory risk is to eliminate it by
16 having your permit, your COL, in hand.

17 I mean, that's really the bottom line
18 here.

19 MR. MAYFIELD: If we can - if I can come
20 back to my discussion, the length of time to get the
21 COL is totally independent of where they are with the
22 financial piece.

23 It's been the technical, the environmental
24 permitting. It's sort of between us and the COL
25 applicant and the financial piece is completely

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1 separate.

2 MR. DUSANIWSKYJ: And Mike, I'm glad you
3 said that out loud because that's usually something
4 that's never really said that needs to be said out
5 loud.

6 MR. MAYFIELD: It - where the finances go
7 that's somebody else's problem, fortunately. Where
8 the COL process goes is between us and the applicant
9 and there are a lot of mitigating factors in that.

10 But project finance hasn't been one of
11 those issues, to the best of my knowledge.

12 MS. GINSBERG: Right. And to be clear,
13 there was nothing that at least I intended to impugn
14 the process as it currently exists.

15 It was much rather to suggest that
16 perceptions are long established and long remembered
17 and so they persist in the financial world.

18 MR. MAYFIELD: And we are painfully aware
19 of it.

20 MS. GINSBERG: As are we.

21 MR. MAYFIELD: Ronaldo had a question.

22 MR. JENKINS: Ronaldo Jenkins, NRO. I
23 just want to dovetail on Ho Nieh's question on
24 monitoring.

25 You provided a chart that shows the - in

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1 actual numbers the amount of financing that would in
2 fact be part of this license condition. Given that
3 the COL, that once it's issued is over a 20-year
4 period, we all know costs change and so presumably is
5 this something that you plan to address or is it
6 already in what you have proposed?

7 MR. J. MATTHEWS: It's in the process
8 because the project finance requires that the lender's
9 engineer update the cost estimate.

10 So and my example here is just a
11 hypothetical and what I'm - what I'm trying to show
12 and I just - I didn't want to make it so complicated
13 as to - in the project finance they look at the use of
14 funds and the sources of funds.

15 So they're going to have a list of uses of
16 funds and that's going to be updated with a number
17 that is updated by the lender's engineer.

18 And so in this case that number is \$7.7
19 billion so you go in and you say, where's the updated
20 cost estimate. That's the number, \$7.7 billion.
21 Well, now what I need to do is verify that there are
22 sources of funds that add up to at least \$7.7 billion.

23 And they may well add up to more than \$7.7
24 billion but as long as they add up to at least \$7.7
25 billion you can say the license condition is

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1 satisfied, in my hypothetical example here.

2 MR. MAYFIELD: Just to pursue that a
3 little bit, because we've talked about it's an
4 inspection kind of thing to close and a ministerial
5 action here.

6 How much - when you've got your example
7 laid out there - how much is that something where I
8 can look at it and - by inspection? I've now just -
9 I look at it and I know I checked the box, I think was
10 somebody's example - versus now I got to get into this
11 and look at okay, you now tell me where you're going
12 to find - one of them was \$1.3 billion. To what
13 degree is the staff going to really need to get in and
14 look at the viability of that number versus check the
15 box? I come from the finance world so I blow things
16 up for a living so -

17 MR. HANSEN: My instinct is, you know,
18 that that may be for you to decide but if you were
19 looking for a reasonable check, you know, one of the -
20 one of the - in all the pile of paper that will be on
21 the closing table one will be a certificate from that
22 independent engineer, the lender's engineer, which
23 will confirm that the capital committed to the project
24 through debt or equity as in the budget at closing is
25 sufficient to cover all project costs.

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1 So it could be as simple as confirming
2 that a certificate in that negotiated form has been
3 delivered and you could get a copy of it.

4 MR. MAYFIELD: So then that's - the degree
5 to which we buy that story is part of what we need to
6 share back with the Commission.

7 MR. J. MATTHEWS: Yes, but I mean, I think
8 the - I think the more - if I were you I would take
9 more comfort in the fact that at the financial closing
10 -

11 MR. MAYFIELD: As she walks out the door.
12 Anneliese, are you good?

13 MS. SIMMONS: I am, yes. Thank you.

14 MR. MAYFIELD: Okay. Thank you.

15 MR. J. MATTHEWS: I would think you would
16 take more comfort in the fact that, you know, there
17 will be documentation for the financial closing.
18 Usually they line up the room like this with folders
19 that go across the entire room.

20 But you will be able to pull up a folder
21 and say okay, here's the credit agreement - here's the
22 note from U.S. Federal Finance Bank and it has a face
23 amount. You look at it and say, that's the face
24 amount. It's \$4 billion and check it off.

25 And so each of these instruments is going

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1 to have a number on it and there's going to be
2 documentation to verify those numbers at the financial
3 close.

4 And so you - you know, if you want to - if
5 you want to see where the \$7.7 billion comes from and
6 each instrument that feeds to that \$7.7 billion you
7 can look at each instrument.

8 MS. GINSBERG: But I think the question -
9 I think the question is if we designate - and I'm
10 using an example that's not on the criteria, on the
11 list of criteria here - that you have to have some
12 particular rating, a Triple A, whatever the rating is
13 - and that exists with Bank A, Bank B, Bank C, you
14 can't say well, I'd rather you pick Bank A than Bank
15 C, right? That's -

16 MR. MAYFIELD: We're not trying to tell
17 you how to do your business.

18 MS. GINSBERG: Right.

19 MR. MAYFIELD: It was we're into
20 inspection, right. Is it there - is it what you said
21 it would be - check the box, right?

22 MS. GINSBERG: Exactly.

23 MR. MAYFIELD: And I don't - I'm not
24 trying to undermine the inspectors here or denigrate
25 the important function they have. But it's not

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1 additional financial review. Otherwise, that doesn't
2 satisfy.

3 MS. GINSBERG: That's right.

4 MR. REPKA: That doesn't work. But what -
5 so what it comes down to is at the time of licensing
6 the question becomes what do you need to know to
7 satisfy your licensing review, and the regulation
8 requires cost projection.

9 You have to submit your construction cost
10 projections and that's going to be submitted and the
11 NRC's going to review that and say, does that \$7.7
12 billion look credible and they're going to look at the
13 numbers and then come to the conclusion that yes, if
14 they have \$7.7 billion that's going to meet our
15 requirements.

16 It becomes a simple matter of confirmation
17 that that \$7.7 billion has been provided with whatever
18 other bells and whistles might need to be attached
19 like if they're coming from investment grade
20 institutions or something along those lines.

21 But the key is to define those criteria
22 the way the agency does with an ITAAC to make it
23 ministerial at the end of the day for the inspectors.

24 MR. MAYFIELD: Are you going to be
25 eligible for -

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1 MS. GINSBERG: No, no. I'm going to do
2 that.

3 MR. NIEH: This is the last question I
4 actually had on this issue and so, you know, you
5 talked about making the documentation available for
6 NRC inspection and review and again, it's a - your
7 vision is a confirmatory ministerial look at this.

8 So is it - just so I understand it and we
9 can frame this properly to the Commission, is it that
10 30 days prior to closing you're going say NRC, here's
11 all this stuff - come look at it when you can.

12 And is that - do you envision starting a
13 stop watch at 30 days? Are you waiting to hear back
14 from the NRC or is the expectation that the NRC would
15 give some confirmation that what you provided meets
16 the license condition? Is that -

17 MR. J. MATTHEWS: Yes, because the banks
18 aren't going to fund unless we have a piece of paper
19 from the NRC that says you've reviewed this
20 documentation and that you believe that if we execute
21 this documentation the license condition will have
22 been satisfied because they don't want to commit the
23 billions of dollars unless they know that the project
24 can be constructed and completed.

25 MS. CUBBAGE: But why would this be

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1 treated differently than any other license condition?
2 The lenders aren't going to need to see the
3 verification of all license conditions and all ITAAC
4 in order to close.

5 MR. J. MATTHEWS: Because this one goes so
6 fundamentally to your ability to construct. I mean,
7 the ability to construct is - it's a non starter. I
8 mean, that's why you got to have -

9 MR. HANSEN: Look, there are two
10 mechanisms here in the normal course. One is the
11 agency who can speak to the issue and confirm that
12 we're done. The second is that perhaps in such an
13 objective condition that people can just look at the
14 circumstances.

15 In that situation, the lenders are still
16 going to want a legal opinion. So I think about the
17 other approach and say we reviewed these circumstances
18 and yes, we agree that that thing has been satisfied.

19 I can't imagine for something, with all
20 respect to my firm and the other firms in the room,
21 that the lenders are going to think that's good
22 enough.

23 Also, there's just not enough track record
24 for it to be sufficiently rote for the lawyers to just
25 say yes, yes, yes, we're here. So I think the obvious

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1 way forward is for the report, the inspector, whatever
2 you guys, you guys confirm were there.

3 MR. NIEH: One follow-up question. Where
4 did you come up with the 30 days?

5 MR. REPKA: Well, and I was going to say
6 I think embedded in that question was the notion that
7 30 days isn't going to be enough time and 30 days is
8 negotiable.

9 But I think that if the applicant and the
10 NRC do their job correctly at the time of licensing
11 the point is to come up with criteria that can be
12 confirmed in 30 days.

13 You know, John has talked about and Ken
14 have talked about the stack of documents at the
15 project finance close.

16 There should be no expectation that the
17 inspectors are going to have to review all that
18 documentation and read every single page of all of
19 this.

20 What they should be able to do is confirm
21 that there's notes and documents on the table that
22 will provide for \$7.7 billion in construction costs
23 and that should be something that could be
24 accomplished in 30 days or 45 days from that.

25 MS. CUBBAGE: I would want to make sure

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1 that we're not unnecessarily setting up some sort of
2 an impediment at that stage because from a regulatory
3 perspective if a license condition process is
4 ultimately viable and agreed to by the Commission, it
5 would be our obligation to verify prior to
6 construction, not prior to closing of the deal, from
7 our obligation.

8 You'd be asking us for some additional
9 regulatory certainty that's not necessarily - wouldn't
10 necessarily be required on our part.

11 MR. REPKA: I think it's a bit analogous
12 to - in the license transfer world sometimes we deal
13 with transactions that don't require NRC approval yet
14 we ask for a threshold determination that no approval
15 is required because at closing all the parties want to
16 know that you've got everything they may need to know.

17 And it does create a little bit of a
18 burden just because of the expectations of the parties
19 in the transaction and I think the NRC deals with it
20 and the parties deal with it.

21 MR. NIEH: Let me just make a comment to
22 kind of give you a gut reaction to this concept we're
23 talking. We're in the thinking phase at this point.

24 In looking at the technical area where we
25 don't license - license conditions like B.5.b is a

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1 great example that I've lived through, you know,
2 industry came back with a guidance document that was
3 something that we could look at in writing where NRC
4 inspectors can go and kind of read the industry's
5 guidance, go over to the facility and kind of look at
6 how a licensee implemented that.

7 And in this case, again, what I was
8 wondering in my mind that I haven't had a chance to
9 talk with our staff and NRR is well, what - assuming
10 if the Commission approved this proposal here how do
11 our technical reviewers go out and do this
12 confirmatory review - by which guidance are we going
13 to apply, what standards are we going to use, et
14 cetera.

15 So that's kind of one thing I'm thinking
16 about in my mind is how our technical staff are going
17 to go out, look at the documents and what level we
18 look at, what are the specific things we're going to
19 look at. So I don't know.

20 MR. HANSEN: In the spirit of sort of
21 based on that, may I ask the question because there is
22 an awful lot of paper in that room.

23 MR. NIEH: Right. Right.

24 MR. HANSEN: Very little of it bears on
25 this question.

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1 MR. NIEH: Right.

2 MR. HANSEN: Except to the extent that
3 each and everything - each and every item in that room
4 may be a requirement for the closing. So without the
5 smallest piece of paper you don't close.

6 But in terms of the substance of the
7 volume of financing that's being committed, et cetera,
8 making the commitment, there's not much.

9 What would be the problem with something
10 so simple as your signing off beforehand on the form
11 of that independent engineer's certificate or that you
12 make sure it says the things you want to say and that
13 that becomes a condition of closing?

14 I can - in the spirit of - I could imagine
15 there might be two elements. One is that you have
16 confirmed that you've received that certificate and
17 the second is not your responsibility, not your
18 control but people - but the banks being comfortable -
19 the fact that the banks have issued the first
20 disbursement.

21 So that the - so the moment they disburse
22 the condition is satisfied and at that point the banks
23 know they totally control that so they don't have to
24 be nervous about that because once they're ready to
25 disburse this won't stand in the way because it's

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1 satisfied as soon as they do.

2 That sort of thing gets set up for other
3 purposes all the time.

4 MR. REPKA: And that passes the objective
5 and verifiable standard for the license condition, and
6 to your point about what standards would the inspector
7 apply, et cetera, et cetera, that really has to be
8 self contained within the license condition.

9 So the condition has to - has to be such
10 that it says this is what you're looking for and it
11 should be a yes or no. It's - this document has been
12 signed. You know, you're not reviewing the
13 sufficiency of that document.

14 MR. J. MATTHEWS: I mean, part of the
15 problem is you have to use the license condition like
16 NEI proposed here because we don't - we don't know
17 what each of these documents is going to be.

18 So in other words, when I look at this
19 list, you know, there might be working capital of \$100
20 million. That might be one bank. It might be two.

21 You know, the other first need that - that
22 might be multiple institutions. So you need to have
23 sufficient flexibility in the process that what you're
24 looking at is you're going to see the financial
25 instruments that document that amount of money.

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1 MR. NIEH: So just to take this one step
2 further, again, I'm an engineer but I do have a
3 business degree so this stuff's not exactly foreign to
4 me.

5 How does this - where do these things line
6 up with this checklist here and where does - what item
7 in that -

8 MR. J. MATTHEWS: Okay. So loans
9 committed by one or more qualified financial
10 institutions.

11 MR. NIEH: Again, I'm only asking just to
12 really understand because we have to task after this.
13 We have to go back and kind of write down kind of what
14 -

15 MR. J. MATTHEWS: And then either - and
16 then equity either funded or committed in a manner
17 acceptable to the qualified financial institution -
18 escrows, guarantees, letters of credit.

19 So these are just examples of loans that
20 would be committed by a qualified financial
21 institution.

22 MR. NIEH: This would be item which one?
23 Item one?

24 MR. J. MATTHEWS: No. Item three. Well,
25 item one is one or more qualified financial

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1 institutions will provide funding that when combined
2 with equity either already paid or committed as
3 adequate complete construction and commence operation.

4 MR. NIEH: And the list would include
5 perhaps one or more.

6 MR. J. MATTHEWS: And but three - well, I
7 guess that also says the - it talks about the legal
8 and financial relationships. That's the documents,
9 the credit agreement, et cetera, are identified.

10 But then it's loans committed or equity
11 either funded. And so, you know, your PPA collateral
12 is probably a letter of credit. Your decommissioning
13 fund collateral is probably a letter of credit.

14 Your working capital is a loan or a line
15 of credit. Your debt service reserve is a funded
16 account so it's - it's in escrow.

17 MR. NIEH: I guess - we don't have to go
18 through to read the thing - exhaustion here but I just
19 wonder, in my mind I do think that this could be a
20 possible area of further dialogue. Do we - as we talk
21 about this is just what does the back end of this
22 proposal look like?

23 MR. REPKA: And I think different
24 applicants may have different views and that license
25 condition might vary from case to case.

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1 But the point is you go back to what is it
2 that you need to find to license the plant and to the
3 extent you need to, you know, if there's - you need -
4 you know, the regulation says you have to have
5 construction costs, okay.

6 So this is intended to document that
7 construction costs will be available. You know, if
8 there's anything about the source of the construction
9 costs that's relevant to the licensing decision, like
10 it needs to be an investment grade institution, that
11 needs to be captured in a condition with a verifiable
12 document.

13 The idea is to take the discretion out of
14 the process later.

15 MR. NIEH: And kind of where I'm heading
16 with this is that, again, you - that you've taken the
17 STP circumstance and look at it and said hey, this is
18 a generically applicable situation here and I think
19 that going forward if this were a proposal that the
20 Commission would adopt as an implement I think it
21 would be better to have something really predictable
22 on the back end that any reviewer from the NRC could
23 kind of go out and say these are the things I'm going
24 to look at to verify that the license condition was
25 met. Again, we don't have to solve that here today

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1 but that's -

2 MS. GINSBERG: But just to add to that, I
3 think you'll have broad categories. You won't have
4 very specific criteria. It's broad categories of
5 criteria from which then the condition will be
6 fashioned.

7 MR. MAYFIELD: It does strike me that
8 what's - the proposed ranges of things to the
9 Commission. They choose one and if they chose, you
10 know, said yes, they find a license condition an
11 acceptable vehicle then I suspect we're going to be
12 back to talk about -

13 MS. GINSBERG: Further dialogue.

14 MR. MAYFIELD: - specific implementation
15 approaches whether it's through an NEI approach that
16 the staff can review and endorse or provide your own
17 guidance.

18 But there's a presumption there that the
19 Commission's going to ultimately come down and say
20 yes, we agree with the license condition.

21 So but I think there would be a lot of
22 specifics and accept that those may be different a bit
23 for each of the applicants that would choose to go
24 down this path. But I think there's probably a two-
25 step process, first of all, to make sure the

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1 Commission buys into this.

2 MS. KIRKWOOD: You mentioned that there
3 was - you mentioned that in a project finance model
4 there are these binding contracts and that that's
5 actually a higher level of assurance - really, the
6 financial viability of the project than up-front
7 funding.

8 Would it be possible to put a license -

9 MR. HANSEN: Not up-front funding. I said
10 an up-front undertaking that you could get the funding
11 if you wanted to.

12 MS. KIRKWOOD: Okay. But -

13 MR. HANSEN: Up-front capacity.

14 MS. KIRKWOOD: I understand what you're
15 saying.

16 MR. HANSEN: Ability plus commitment beats
17 just ability.

18 MS. KIRKWOOD: Would it be possible to
19 sort of along the same lines that PFS license
20 conditions had the sample contracts in the license
21 condition, would those type of binding commitment
22 contracts be possible to put into the license
23 condition that there will be contracts among the
24 lenders that will include the following -

25 MR. HANSEN: Not the actual contracts that

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1 they haven't negotiated yet. Some reference to the
2 kind of contract, I would think so. Or a specific
3 return on -

4 MS. KIRKWOOD: Not the standard thing that
5 you could sort of -

6 MR. J. MATTHEWS: These are just the
7 nature of the commitment itself.

8 MR. HANSEN: Sure. Well, the nature - the
9 nature of the commitment is a loan from a qualified
10 financial institution. Now, that's going to be
11 documented in a credit agreement, a security
12 agreement, a note and all of that. And, you know, and
13 they're going to be of various types because there
14 will also be letters of credit. There will also be
15 escrow accounts that are held by the collateral bank
16 agent.

17 So, you know, to try and - to try and give
18 example or provide example documents I think opens the
19 door to a pretty big issue because you just - the
20 difficulty of trying to cover everything would be
21 massive.

22 MS. UTTAL: Yes, but if the staff decided
23 that reasonable assurance required a certain clause be
24 in the contract then -

25 MR. J. MATTHEWS: What do you have in

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1 mind? I mean, what kind of clause is -

2 MS. UTTAL: I have nothing in mind, John.

3 But if the staff were to decide that reasonable
4 assurance required a clause, a specific clause or
5 several specific clauses, to be in the contract that
6 it's not unheard of for the staff to, in the financial
7 area, put such a requirement in as a license
8 condition. I don't think it's unheard of in the
9 transfer mechanism.

10 MR. T. MATTHEWS: It's certainly more
11 manageable than a form of an agreement where you're
12 talking about a project this large, that's right, and
13 I think it's what you're asking.

14 MS. KIRKWOOD: Yes. Well, I guess what I
15 understood was part of the reason why we should have
16 more faith in the product finance model is these
17 binding commitments and so I'm looking to say well,
18 how would we verify it.

19 We were trying to make this - all this
20 material up front - how would we put that into the
21 license now to ensure that this project finance model
22 follows the typical project finance model.

23 MR. HANSEN: Well, if you're just going to
24 - final thought - if the concern is that those
25 contracts be legally binding rather than trying to

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1 come up with language that - you would be comfortable
2 that that language would make it legally binding
3 because I don't think that's possible because there
4 will be some other language somewhere else undermining
5 it.

6 But you just say the expectation would be
7 that this closing would be supported by industry
8 standard legal opinions confirming the validity and
9 enforceability of the contract, something like that.

10 And I don't know it will cause heartburn
11 because no deal will close without those kinds of
12 opinions on the table.

13 MS. ROMA: Sara, just to add to the
14 question, the PFS contract is only a couple pages long
15 and it was just a sample contract and tables were
16 never constructed so it was never actually used.

17 But by comparison the similar documents
18 you're talking about would be hundreds of pages and
19 every financial institution put in its own boilerplate
20 language of things that you guys would need to
21 reinspect.

22 MS. KIRKWOOD: Right. I guess - well,
23 yes. That sort of illustrates, I mean, one of my
24 concerns. When you look at the PFS case the
25 Commission specifically told the staff that they

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1 needed to put the sample contracts in the -

2 MS. ROMA: But I think you can look at it

3 conversely and say, you know, the issue that was just
4 brought up if you say what specific terms do we want
5 to see in these contracts that can be incorporated
6 very easily into it.

7 MR. J. MATTHEWS: I guess that's what I'm
8 - had a problem is I'm not sure that this agency
9 really needs to be in the business of trying to - I
10 mean, articulate terms in the criteria.

11 I mean, the only thing I can think of that
12 when - obviously, you're not going to be evaluating
13 the interest rate or the timing of repayments. I
14 mean, there's going to be security interests and
15 rights to - rights to the project and they're going to
16 have to be written in such a way that the lenders
17 understand that they can't exercise those security
18 rights, take possession of the project and take
19 control of the license without first getting the NRC's
20 agreement.

21 So it seems to me that that would be the
22 one area where the NRC might have a legitimate
23 interest in the terms of the agreements. But other
24 than that, it just seems -

25 MS. UTTAL: John, I don't think we're down

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1 to where you can decide sitting at this table what
2 we're interested in or not interested in.

3 So I was thinking if there's any reason
4 for you to parse out what the NRC's going to be
5 interested in.

6 MR. J. MATTHEWS: So maybe the legal
7 opinions - maybe the legal opinions was the best idea.
8 I just -

9 MS. KIRKWOOD: I'm looking for something
10 that we can put into it that would make it - I mean,
11 assuming that you buy the theory behind the
12 regulations that we need to see that there's
13 sufficient funds then something that would make it
14 clear that this has sufficient funds, then maybe I
15 don't care who the investors are.

16 You know, you just make sure that there's
17 sufficient funds. And then my other thought along
18 those lines this just came up -

19 MS. UTTAL: Sufficient funds and they're
20 good for it.

21 MS. KIRKWOOD: Right. And I think I may
22 have just gotten confused in the last conversation but
23 you were saying something about how they wouldn't want
24 to go to closing until they saw some inspection report
25 from us.

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1 And I guess I want to just talk about the
2 timing of us closing this license condition because I
3 thought the license condition model was that it would
4 close after you went to project finance closing.

5 But were you suggesting that it wouldn't -
6 I don't want to - I want to make sure that we don't
7 come up with a process that doesn't actually work, you
8 know -

9 MR. HANSEN: We were sort of debating with
10 ourselves. It's clear that the lenders are not going
11 to put a penny onto the table until they're
12 comfortable the project company has the right to use
13 that money to build the project.

14 And so that it avoid as a situation that
15 there's some uncertainty that continues, you know.
16 For instance, your condition were you must have
17 financial close and disburse at least a million
18 dollars before we will get COL, that deal will never
19 happen, regardless of how encouraging, you know, where
20 the banks come and meet with you and you say oh, yes,
21 we're almost certainly going to be there - of course,
22 we reserve the right to make our own decision.

23 The Commission could always change its
24 mind. It won't happen. What I was thinking before
25 that if you had, you know, it's just so helpful to

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1 have some piece of paper that they can check their own
2 box and say ah, yes, they said it was okay.

3 If you said well, actually the piece of
4 paper isn't enough - it has to be the piece of paper
5 plus something if that something is - something is
6 completely in the control of the banks like the fact
7 of their having disbursed then I think that probably
8 would work.

9 But we've got to be careful not to build
10 in chicken and egg problems that cause people to go
11 crazy and that don't work.

12 MR. NIEH: And can I add to it? I think
13 we talked about this before and I agree with Mike that
14 depending on what the Commission ultimately decides if
15 it doesn't meet all the license condition I do think
16 some of the details will need to be sorted out
17 especially on the back end of the closing as far as
18 the time it takes and what the NRC would look to do
19 its confirmatory review.

20 MS. GINSBERG: Yes. That's an important
21 feature of this and in the interests of doing
22 something helpful we would not want to put ourselves
23 in a position - deficit position.

24 MR. TURTEL: As Ho is saying, I'm thinking
25 of the details on the back end as staff is reviewing

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1 these kinds of documents. But we're dealing with them
2 on the front end in terms of detail and are we, you
3 know, you're looking for an avenue to, like, let's put
4 that - let's, you know, chicken egg, egg chicken.
5 Let's put that on the back end unless there's a little
6 more detail I guess within that kind of license
7 condition.

8 The staff may end up finding itself in the
9 same situation, again, looking for details of which we
10 haven't defined until the first one comes along and we
11 say well, where are those contract conditions.

12 So we'll find ourselves kind of, in a
13 sense, if this license condition concept goes forward
14 I think the more detail in there is better for staff
15 clarification, for everyone's understanding before
16 finality and such. Does that - does that make sense?
17 I mean, I just think that would help close it.

18 MR. MAYFIELD: So if we go back to
19 Anneliese's concern about adequate opportunity for
20 stakeholders to engage it strikes me that if the
21 Commission told us to go forth and further explore a
22 license condition option then that's where we would
23 begin to start a dialogue, look to the industry to
24 engage on this and then begin to flesh out exactly
25 what a viable license condition and subsequent

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1 inspection approach would look like and there, I
2 think, you would be out for additional stakeholder
3 engagement by definition.

4 But there's a presumption in all this that
5 the license condition approach is going to be
6 something that the Commission tells us to further
7 approach.

8 MS. GINSBERG: Yes. Let me just make a
9 cautionary statement and that is in the interest of
10 suggesting that this be an extraordinarily robust
11 license condition, I also don't want to suggest that
12 it's actually a higher standard than otherwise would
13 be applied.

14 So I think we need to be very careful
15 about defining reasonable assurance in both contexts.

16 MR. REPKA: This is why I agree. I call
17 it a robust process that the license condition is very
18 specific.

19 MR. MAYFIELD: Do you want to come back?
20 Sara, do have anything else?

21 MS. KIRKWOOD: No, I'm done and I don't
22 really want to say anything that would sound like I
23 disagree with you.

24 MR. MAYFIELD: Why not?

25 MS. KIRKWOOD: Because I'd agree that

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1 there may be more opportunity for a stakeholder
2 involvement but I think some of the details are
3 important to figuring out whether or not the license
4 condition is a viable approach and that's where I want
5 to - what I think I -

6 MR. MAYFIELD: Michael?

7 MR. SPENCER: Yes. I was going to ask
8 some questions about licensing. I'm not an economist.
9 I'm a financial person. I notice that some of the
10 licenses will be two sets of licensee issues.

11 One talks about qualified investors and
12 qualified financial institutions and the other talks
13 about qualified financial institutions and it gives
14 various credit ratings, and a question I have is let's
15 say that you have an institution that is willing to
16 commit to providing several billion dollars of equity.
17 Is having this certain credit rating alone enough to
18 guarantee that that company is able to provide that
19 amount of money?

20 MR. J. MATTHEWS: No, because nothing's
21 ever guaranteed but that's not the standard in the
22 regulation. The standard in the regulation is
23 reasonable assurance and, quite frankly, I think you
24 could probably get reasonable assurance out of the
25 fact that a bank is willing to sign an instrument that

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1 they're loaning \$2 billion is a pretty good indication
2 that they're - they've got the wherewithal to do it.

3 But if they also - what we've defined is
4 a credit rating that is a minimum credit rating for
5 that qualified institution which is single A or better
6 from Standard and Poor's and A-2 or better from
7 Moody's and both of those are credit ratings that are
8 two notches above investment grade, one notch above
9 the credit rating required to give a self-guarantee
10 under NRC's regulations in Part 30 Appendix C for
11 decommissioning funding assurance.

12 So in order for a company on its own to
13 provide reasonable assurance of the availability of
14 funds for decommissioning, the credit rating criteria
15 there - really, the essential test is that you have A
16 minus or better or A-3 or better in the existing NRC
17 regulations for decommissioning funding.

18 So this is one rating higher and they're
19 defined as essentially institutions that have low
20 credit risk and strong capability of financial
21 wherewithal.

22 Let me make sure I'm quoting that
23 correctly. Low credit risk and strong capacity to
24 meet financial commitments with only some
25 susceptibility to the lender to be impacted by adverse

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1 economic conditions or changed circumstances.

2 So it's a pretty solid rating for a
3 financial institution.

4 MR. SPENCER: Okay. And - well, financial
5 in terms of for an equity investor too?

6 MR. J. MATTHEWS: Well, and we've gone
7 round and round on what that ought to be and I think
8 we really think that there should be flexibility in
9 the kind of equity participation and I really think
10 that the lenders are going to impose pretty high
11 standards on the equity contributions.

12 So there's a - you know, I think it's
13 likely a lot of these projects, they're going to
14 insist upon a lot of cash or they're going insist upon
15 equity commitments that come from extremely well-
16 qualified entities.

17 But the possibility is that there's
18 different kinds of entities. So, you know, I think
19 that the criteria in the NEI proposal is that you
20 simply rely upon the fact that it's an equity
21 commitment that the financial institution is willing
22 to accept.

23 And if they're willing to accept it as,
24 you know, part of this package and they're the ones
25 putting the bulk of the money on the table then it

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1 ought to be good enough. And again, the standard here
2 is reasonable assurance, not guarantee.

3 MR. HANSEN: If I could build on that a
4 little bit, there's a difference between debt and
5 equity.

6 Fundamentally, the importance of the
7 credit rating is when there's a difference in time
8 between when an institution makes its commitment and
9 when it's going to perform, right. So, you know, if
10 we've got a promise today, well, how good is that
11 promise and how much can we rely on it.

12 If, for instance, they make the promise
13 and they fund up front, we're done. We don't really
14 need to worry about - their credit rating can go to
15 hell in a hand basket. Doesn't matter. We've got the
16 money now.

17 Now, typically, in these projects the debt
18 wants to see the equity in first or maybe pro rata in
19 which case they worry a lot about the credit quality
20 of the equity investors.

21 But the - something as simple as a credit
22 rating on the equity may be a problem. For instance,
23 a lot of money these days is coming from large private
24 equity funds.

25 Well, none of them have credit ratings.

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1 They don't borrow money. They don't need credit
2 ratings. They are money, right.

3 So technically they'd have a problem.
4 I've run into that in the DOE loan guarantee program
5 context where, you know, these guys didn't have a
6 rating because they didn't need it.

7 But the - so I guess I - the point that I
8 - I think a different presumption may apply for your
9 banks or equity - the debt investors than it would for
10 equity and you could have the same - well, you would
11 have the same concern, I suppose, that the banks
12 would.

13 There's pretty much an alignment of
14 interests that if there are credit issues with the
15 equity, well, then fine. Then it needs to be up front
16 or it needs to be supported by a letter of credit or
17 whatever and I - given that your standard is
18 reasonable assurance that would be an awfully faint
19 standard for any bank making the investment.

20 I think you can rest pretty comfortable
21 that their standards are going to be higher. So if
22 it's okay for the bank it would be a little shocking
23 that it weren't for you.

24 MR. J. MATTHEWS: And that's why we
25 propose to just simply rely upon if it's acceptable to

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1 the lenders then it ought to be acceptable.

2 MR. T. MATTHEWS: Rely on the process that
3 it's acceptable to the banks as evidence.

4 MR. SPENCER: I have a question on the
5 license condition. The license condition mentions
6 lenders and, you know, there would always be a lender
7 independently. If there are multiple lenders would
8 there be more than one NRC lending condition?

9 MR. HANSEN: As you're saying, negotiable
10 point. Typically no, but I can give you contrary
11 examples.

12 MR. SPENCER: Okay. So the - essentially
13 the cost of construction in the license condition is
14 set by the lender's engineer's estimate. I'm just
15 wondering whether there are any multiple estimates of
16 multiple engineers, potential.

17 MR. HANSEN: I guess what there might
18 typically be would be would be some interplay between
19 the lender's engineer and the owner's engineer.

20 So you would tend to have at least a bit
21 of a dialogue on the engineering front. But at the
22 end of the day there will be an agreed number and
23 it'll get prodded and pushed at most from a lot of
24 different perspectives. But they're not going to be -
25 by the time we get to closing there will be one

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1 agreed number and a budget to match.

2 MR. SPENCER: Okay. Another question.
3 The license condition is based on the lender's
4 independent engineer's estimate of construction costs.

5 The NRC construction cost estimate from
6 licensing is a part of the license condition. So do
7 you think that's not relevant in this case or that the
8 NRC's estimate of construction costs at the time of
9 licensing it doesn't play into the license condition
10 as far as I can tell. So would you say that's not
11 relevant to your proposed proposal?

12 MR. J. MATTHEWS: I guess my hope was to
13 take credit for the fact that the project finance
14 requires a lot more than just the simple cost estimate
15 that the NRC requires, that it also includes
16 contingency and various other requirements and so it's
17 always going to be higher.

18 But I suppose we could write into the
19 condition a requirement that it be not less than the
20 licensee's cost estimate and reviewed by the NRC
21 staff, I mean, because it is always going to be
22 higher.

23 MR. SPENCER: Okay.

24 MS. KIRKWOOD: Sort of, I guess, playing
25 off of Ellen's that we not increase the requirements

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1 why couldn't you just meet at the NRC cost estimate?

2 MR. REPKA: Could be.

3 MR. J. MATTHEWS: My thought was to
4 address Ronaldo's concern that you issue a COL and
5 it's out there and suddenly financial commitments or
6 conditions are right and we want to start building at
7 South Texas project in 2022.

8 You know, I think costs are going to be a
9 little bit different in 2022 than they were in 2012 or
10 2013. So it gives them protection that the cost
11 estimate is going to be reasonable at the time the
12 condition is implemented.

13 MR. SPENCER: One more question. For
14 license condition it talks about credit ratings, talks
15 - mentions comparable international standards so it
16 says that you must meet this credit rating community's
17 or Standard and Poor's or a rating being under
18 comparable international standards.

19 Are these things - that if you were
20 talking about a specific licensee are these things
21 that could be spelled out ahead of time?

22 MS. GINSBERG: I think the answer is yes.

23 MR. SPENCER: Okay.

24 MR. J. MATTHEWS: Probably yes. We kind
25 of wrote a generic - the thought was maybe something

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1 like Korean Export-Import Bank. I don't - I don't
2 know if they have an S&P rating or a Moody's rating.

3 But I've got to believe that a bank backed
4 by the government of Korea is probably good enough for
5 the reasonable assurance test.

6 MS. CUBBAGE: That clarity certainly helps
7 make it ministerial to verify the end.

8 MR. J. MATTHEWS: I mean, we'd have to go
9 and research all the likely export credit agencies.
10 It's probably Korea Ex-Im, XE --

11 MR. HANSEN: It's probably a two-step
12 process, right.

13 (Simultaneous speaking.)

14 MR. HANSEN: It's the rating of the
15 government, that confidence that we see these carries
16 the sovereign undertaking of the government but with
17 a sovereign rating.

18 MR. J. MATTHEWS: Do all these - all these
19 countries take S&P or Moody's ratings, don't they? A
20 sovereign bank?

21 MR. HANSEN: I've never checked but yes,
22 yes. Sure. Sure.

23 MR. SPENCER: In principle it can be
24 sprung up. Yes.

25 MR. J. MATTHEWS: Yes. We can do more to

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1 instruct that.

2 MS. GINSBERG: And the idea just in
3 providing this was so that it wasn't just a
4 hypothetical sort of theoretical idea that we put
5 something on paper.

6 So I think going to Ho's point, if this
7 needs refinement, if the agency has some views we're
8 certainly amenable to further discussion and we'll
9 look forward to that once we get the threshold issue
10 addressed by the Commission.

11 MR. J. MATTHEWS: I mean, we intentionally
12 put the reference to international standards in there
13 just as a placeholder for the issues so that it would
14 get dealt with.

15 MR. MAYFIELD: Anybody else from the
16 staff? Then I've hijacked Russ' meeting once again.
17 So at that point, I'm going to turn it back to Russ.

18 MR. CHAZELL: Thanks, Mike. Well, I'd
19 just like to open this up to public comments now. Are
20 there - is there anyone on the phone that would like
21 to comment? Is there anyone still on the phone?
22 Okay. We're listening.

23 MR. BECKER: We're here.

24 MR. CHAZELL: Okay. We're listening.

25 PARTICIPANT: I don't have any comments or

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1 questions.

2 MR. CHAZELL: Okay. Anyone in the room?
3 I don't think there's anybody from the public here.

4 MR. FREEBAIRN: Yes.

5 MR. CHAZELL: Okay.

6 MR. FREEBAIRN: I'm Bill Freebairn with
7 Platts. Just a quick question for NRC. What in fact
8 is the next step and it sounds like you're going to go
9 to the Commission. In what form might that take?

10 MR. MAYFIELD: The expectation is we will
11 prepare in the coming couple of months a paper that we
12 will send to the Commission and I don't want to
13 presume right now whether that will be a notation vote
14 paper or an information paper but the expectation is
15 we will have specific communication with the
16 Commission and move that forward.

17 MR. FREEBAIRN: Do you expect it to
18 include a recommended course of action?

19 MR. MAYFIELD: You're asking a very good
20 question and I don't want to presume too much. Quit
21 dancing around it.

22 Yes, the expectation is that we will send
23 - at least today the expectation is we will send
24 forward a notation vote paper to the Commission with
25 a recommended course of action.

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1 That's the expectation today, January 8th,
2 and we're a couple of months downstream.

3 MR. NIEH: We are going to look at the
4 issue. If there's a matter of Commission policy we're
5 going to write it down and sum it up to the Commission
6 and if there is a recommended staff action the papers
7 typically include that as well. But at this point, I
8 agree with Mike.

9 I don't think we're there yet from the
10 discussion today but I think, again, the dialogue here
11 was very helpful in better understanding the proposal
12 in the eyes of the agency.

13 MR. FREEBAIRN: And is it - it was unclear
14 to me whether this is going to require changing NRC
15 regulations and I'm guessing you guys are not going to
16 pursue that.

17 MR. MAYFIELD: We are not - we are not in
18 a position to answer that today.

19 MR. FREEBAIRN: But that issue would be
20 addressed probably?

21 MR. MAYFIELD: That would - I think when
22 you look at presenting to Commission, assuming that's
23 the direction we go, a range of options, rule making
24 is a potential option. But where that would go it's
25 way too early to presume.

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1 MR. J. MATTHEWS: Can I ask a follow-up on
2 ~~that? Will the issue of whether or not existing~~
3 regulations allow the license condition to be an issue
4 that will be put to the Commission to decide or is
5 that something that OGC will take - will render an
6 opinion on or -

7 MR. MAYFIELD: I think it's a fair
8 question and it's about two months premature. That's
9 it.

10 We're in the throes of gathering
11 information to support a dialogue among the staff
12 which, of course, includes counsel, even though Sara
13 disagrees with me. Routine.

14 (Laughter.)

15 MR. CHAZELL: All right. Anyone else?
16 Well, I thank everybody very much for your attendance
17 today and that concludes our meeting.

18 (Whereupon, the above-entitled meeting
19 concluded at 11:27 a.m.)

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Proceeding: Financial Qualifications for Combined
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